

# FirstGlimpse®

FirstGlimpseMag.com

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Since 1979, Sandhills Publishing has produced publications covering technology beginning with the introduction of *Processor*. Over the years, the company has developed a complete line of computing publications, encompassing *Smart Computing*, *PC Today*, *Computer Power User*, and *First Glimpse*. Our plain-English approach has served audiences well for 30 years, ensuring they receive accurate and unbiased technology information to meet their needs.





# FirstGlimpse®

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**On Our Cover:** Featured on this month's cover is the Sharp AQUOS Quattron 3D LE925 Series HDTV (\$3,899.99 and \$4,799.99, 52- and 60-inch models, respectively; [www.sharpusa.com](http://www.sharpusa.com)), JVC Piccio GC-WP10 (\$199.95; [www.jvc.com](http://www.jvc.com)), Trend Micro Titanium Maximum Security 2011 (\$79.95 for three licenses; [trendmicro.com](http://trendmicro.com)), and TomTom XXL 550TM Fuel Services Bundle GPS (\$259.95; [www.tomtom.com](http://www.tomtom.com)).



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# The Connected Home

## Discover New Possibilities With Today's Technology

TODAY A WIDE VARIETY of digital devices and technologies work together to make all kinds of information available whenever and wherever you need it. Stream movies to your home theater; download photos from a relative overseas to a photo frame in your living room; or upload music from your MP3 player to your car. Whatever you want to do, there's a product out there to help you do it. Use this digital home blueprint to identify the types of things you want to do, and then go to the appropriate pages to learn about related products and technologies.



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For many of us, a cell phone is a daily companion. To get the most out of this device, look for accessories in our Portable Devices section.



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# ce news

COMPILED BY ANDREW LEIBMAN

## The Home PC Turns 33

While the first home computer is the subject of some debate, Tandy's TRS-80 is undoubtedly a prime candidate; it was announced 33 years ago on Aug. 3, 1977. It carried a \$600 price tag, which is the equivalent of \$2,160 today. The TRS-80 featured 4KB of RAM, a 12-inch monitor, cassette-based storage, and a BASIC interpreter. About 200,000 models were shipped over four years, exceeding expectations of 1,000 the first year.



Source: [www.theoldcomputer.com](http://www.theoldcomputer.com)



## Mobile Web Usage Soaring

Pyramid Research and Heavy Reading expect the global mobile broadband market to expand to 1 billion connections by 2012. According to Pyramid, the driving forces behind the rapid growth are smartphones and cellular modems that let users consume more bandwidth-demanding content such as videos and applications. In another report, ABI Research claims that data usage in North America will increase at a compound annual growth rate of 55%. In 2010, ABI estimates that the average mobile data user in North America will consume 159MB of data.



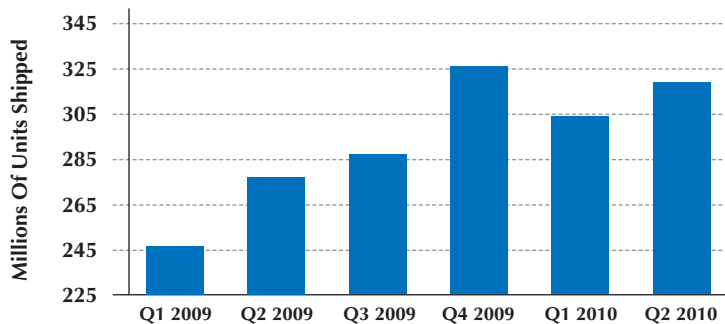
## m a r k e t p l a c e

## Mobile Phone Shipments Up

According to the latest "Worldwide Quarterly Mobile Phone Tracker" report from the research firm IDC, the mobile phone industry has reason to be optimistic. The report indicates that mobile phone vendors shipped a total of 317.5 million units over the course of the second quarter of 2010. That's a 14.5% increase from the 277.2 million units shipped during the same period last year (Q2 2009). For the first half of 2010, vendors shipped 620.6 million units, which is an 18.5% jump from the 523.5 million units that shipped in the first half of 2009. The rest of 2010 is looking promising, as well, considering historical trends indicate Q3 and Q4 have been popular times to buy mobile phones.

Source: IDC

Mobile Demand Growing

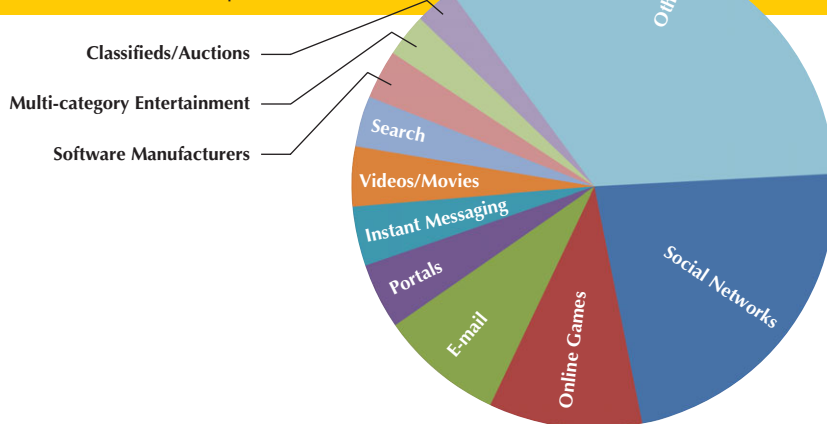


## What We're Doing Online

There's been a shakeup in the ranks of most popular online activities. In June 2009, Nielsen's survey of American Internet users revealed that visiting social networking Web sites accounted for 15.8% of our time spent online, email accounted for 11.5%, and online gaming accounted for 9.3%. As of June 2010, however, social networking usage grew to consume 22.7% of our time, online gaming supplanted email, consuming 10.2% of our time, and email-related activities fell to 8.3%. The latest survey also ranked the time we spent on portals, instant messaging, videos, search, and more, which consumed 4.4%, 4%, 3.9%, and 3.5% of our total time spent online, respectively.

Source: Nielsen

Share Of Time Spent Online



FirstGlimpse

## tidbits

A sextuplet of Dutch gamers has recently snagged the Guinness World Record for nonstop gaming. They played for 50 hours straight. Chirantan Patnaik from India set the previous record in September 2009 by playing for 40 hours and 20 minutes.



Source: Vogels

According to a new DisplaySearch forecast, 3.4 million 3D TVs will be shipped by the end of this year. By 2014, 42.9 million units will ship that year alone. For 2010, 3D TVs make up just 5% of the total flat-panel TV share, but in 2014, they'll account for 37%.

Source: DisplaySearch

In five years, 3.7 billion mobile handsets will feature mobile Web browsers. That'll be approximately 60% of all mobile handsets in 2015. Currently, only about 30% of handsets feature mobile browsers.



Source: ABI Research

According to the latest estimates, overall graphics chip shipments increased by 4% in Q2 2010 compared to Q1, due to significant growth from the notebook category of graphics chips. For the first half of 2010, graphics chip shipments were 38.6% higher than they were for the same period in 2009.

Source: Jon Peddie Research



# Sharp AQUOS Quattron 3D LE925 Series HDTVs

## 3D Done Better

It may be early days for 3D home theater, but you'd never know it by looking at Sharp's new 3D TVs, which are available in Magnolia Home Theater. The company designed its LE925 series (\$3,899.99 and \$4,799.99, 52- and 60-inch models, respectively; [www.sharppusa.com](http://www.sharppusa.com)) to enhance the 3D experience in a number of ways.

- Sharp's brighter picture won't look too dark in 3D mode
- Everybody can be happy: Sharp's eyewear lets you switch to a 2D view whenever you like, even while other viewers continue to enjoy 3D
- Big 52- and 60-inch screens fill your peripheral vision for 3D that's more lifelike
- Forget blurry 3D: Sharp's Side Mount Scanning LED Backlight reduces crosstalk between the left and right images
- Two sets of 3D eyewear come with each TV
- These AQUOS Quattrons can convert 2D content into 3D—including video you stream



Sharp LC-52LE925UN and LC-60LE925UN  
\$3,899.99 and \$4,799.99, 52- and 60-inch models, respectively | [www.sharppusa.com](http://www.sharppusa.com)

### More Than Just 3D

Even leaving 3D out of the equation, the LE925 series' picture quality is engineered to impress. Sharp has endowed this LED-LCD with several intriguing innovations.

- Quad Pixel Technology adds a yellow sub-pixel that makes images appear more vivid and realistic. And for enhanced detail, Quad Pixel Plus enables the individual control of 8 million sub-pixels.
- No other LCD has more contrast—black looks black, not gray
- AquoMotion 240 all but eliminates motion blur in fast-action scenes
- Speedy 4ms pixel response time and Vyper Drive game mode eliminates on-screen image lag
- New Frame Rate Enhanced Driving technology lowers energy consumption even as it brightens the screen

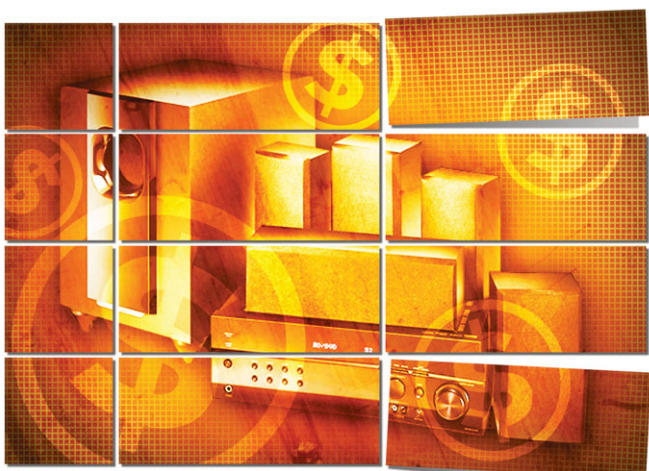
### Advanced Features

- Video quality is essential, but it's not the end-all, be-all of these Sharp TVs
- A USB Wi-Fi adapter is included
- Built-in support for video streaming from Netflix and Vudu, as well as AQUOS Advantage Live online tech support
- Sharp's 3D Surround Sound is onboard
- Support for Control4 and other digital home control technologies

## HOW TO BUY A

# Home-Theater Audio System

## Build The Best Sound Setup



When you're ready to step up to surround sound in your home theater—and/or upgrade to high-definition audio support for BDs (Blu-ray Discs)—it's time to go shopping for a new audio system. But first, do a little research in these four important areas.

**HTiB or DIY.** The easy route is to buy a home theater in a box, which comes with speakers, an A/V receiver, and other items in a prepackaged set. However, buying a receiver and speakers separately lets you get the exact components you want. For instance, you may prefer the feature set of one manufacturer's receiver but the sound of another vendor's speakers.

... buying a receiver and speakers separately lets you get the exact components you want ...

**HD audio and 3D support.** Unless you already own a BD player that fully decodes (makes audible) all types of HD audio formats, including DTS Master Audio and Dolby TrueHD, you'll want an A/V receiver that can do this. And make sure that the receiver's video pass-through feature is compatible with 3D. Even if you have no current plans to upgrade to BD, let alone 3D, these capabilities will help to future-proof your sound system.

**Sound quality.** First, narrow your search to receivers and speakers (a subwoofer, center, and four to six satellites) that are suited to your room size, according to their manufacturers. Next, ask to listen to a BD movie and audio CD on the sound system.

... listen to a BD movie and audio CD on the sound system.

High or low, every sound should be clear and undistorted.

**Other features.** Make sure that the receiver has the number and types of inputs and outputs the rest of your home-theater equipment needs. Some nice extras to shop for include automatic speaker setup, which makes it easier and more precise to dial in the volume and sound delay of each satellite speaker rather than guessing it by ear; enhancement features to help MP3s and other compressed audio files sound better; and support for a portable music player dock.



# All The Right Notes

## The Ideal Speakers For You



Although all cars exist to provide transportation, certain cars are a better match for certain drivers. The same is true of speakers in that all output audio, but certain styles are better suited to certain listeners. To help you find speakers best suited for your needs, here's a look at what four speaker types have to offer.

### Floor Speakers

Also called tower speakers, these speakers are generally taller and wider than other speakers. Although their size essentially precludes placing them anywhere but on a floor, they're typically more powerful and can output louder and more dynamic audio. Floor speakers typically house multiple drivers to cover the entire audio frequency spectrum, giving you an expansive sound that smaller speakers can't deliver. Because they produce high-quality audio, you'll usually pay more for floor speakers.

**Perfect For:** Audiophiles, filling large spaces with audio

### Bookshelf Speakers

Usually about a foot or less tall, these speakers can inconspicuously reside on a bookshelf or table, and many experts regard them as providing performance exceeding their size and what you'll pay for them. Bookshelf speakers typically house a tweeter and woofer to cover the mid-low to high audio range. As such, consider adding a separate subwoofer to bolster the low end, especially if you'll be watching a lot of Blu-ray Disc or DVD movies.

**Perfect For:** Budget buyers, smaller spaces

### In-Wall & Ceiling Speakers

These unobtrusive speakers can hide wires from sight and some models sport paintable frames, enabling them to seamlessly blend into a room. Though more difficult to install in existing spaces, they're great for new houses, home-theater remodeling projects, and whole-house systems. Further, some models are moisture-resistant (think bathroom, poolside, and kitchen use). Downsides can include a lack of deep bass output and difficulty taking them with you if you move.

**Perfect For:** New homes, remodeling projects, whole-house audio systems

### Wireless Speakers

Beyond reducing wire clutter, wireless speakers are generally easy to install and move about. Wireless coverage, typically relying on Bluetooth or RF (radio frequency), can extend past 300 feet depending on the model. Detractors can include higher prices, susceptibility to signal interference, and some systems still requiring wires to connect rear speakers to a separate powered unit that receives signals from an A/V receiver-connected transmitter.

**Perfect For:** Reducing cable clutter, piping audio to different rooms or outdoors

## ESSENTIAL THINGS TO KNOW

# Blu-ray Disc Players

## Q What is a BD?

A Blu-ray Disc is the same physical size as a CD or DVD. However, because it can hold much more data, it has room to store high-definition audio and video.

## Q How does BD video compare to that of DVD video?

A BD offers much more detail in landscapes, the textures of actors' clothes, and individuals in crowd scenes, plus sharper credits and captions.

## Q Does BD have better color than DVD, too?

A Yes. Blu-ray Discs can display more individual colors simultaneously and from a broader palette. Also, BD shouldn't show noticeable color gradients in skies, meadows, and deserts.

## Q What is high-def audio?

A BD movie soundtracks may be encoded in high-def audio formats such as Dolby TrueHD and DTS Master Audio, which are more faithful to the original sound than DVD audio formats.

## Q What is the best cable to use with a BD player?

A HDMI, assuming your HDTV or A/V receiver supports it. It transmits both audio and video. Get a high-speed HDMI cable for a BD player that's 3D-capable.

## Q What else do I need to enjoy full-quality Blu-ray video and audio?

A A 1080p HDTV and a 5.1- or 7.1-channel surround-sound system. Either the player or the receiver must support all BD audio formats.

## Q What features should my new BD player have?

A Internet connectivity, especially through Wi-Fi, has become a must-have feature. Support for 3D BDs is recommended, too. (This may require a firmware update.)

## Q Why would I want my BD player to go online?

A Many can access streaming services such as Netflix, CinemaNow, and Internet radio. Also, compatible BD movie discs can unlock BD-Live bonus content and extra features using an Internet connection.

## Q What else do I need to enjoy 3D BDs?

A You'll also need a 3D HDTV, accompanying eyewear, and a high-speed HDMI cable. Optionally, you'll want an A/V receiver with 3D pass-through support.

## Q What other options do I have for playing BDs?

A You can buy game consoles, computers, and portable players with BD playback capabilities. You can also upgrade a PC to play and/or make BDs.





# Yes, You Need To Calibrate

## Get Optimal HDTV Video Results

### Why A Professional Calibration?

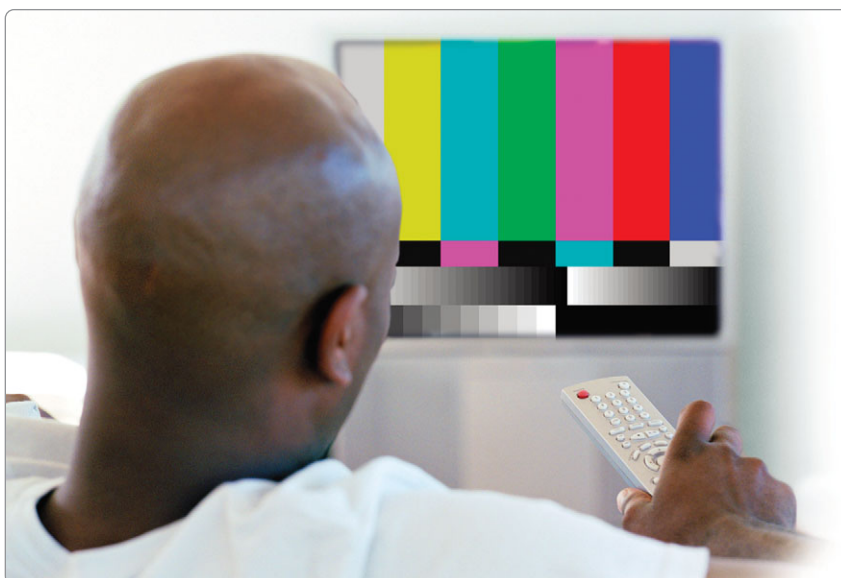
- Calibration specialists are ISF (Imaging Science Foundation)-certified, which means they are trained to use highly specialized and expensive equipment to calibrate HDTVs correctly.
- A calibration DVD might be a tempting alternative, but it won't let you adjust all of your HDTV's settings. An ISF-certified professional can access advanced service menus to calibrate your TV correctly. These settings aren't meant to be experimented with, so if you poke around and gain access to your TV's service menu, it's best to leave it alone. Many people have rendered their TVs useless because they didn't heed this warning.

### Your Video May Not Be All That It Seems

- Most TVs are shipped with a set standard video mode meant for an electronics store display—this means that the TV's settings are adjusted to show the best picture in a bright, fluorescent-lit environment. Because it's unlikely your lighting at home matches the store's surroundings, you should have your TV professionally calibrated by a specialist to accommodate your home's unique lighting environment.
- An HDTV's viewing angle and your home-theater setup also affect how your HDTV should be calibrated. An ISF-certified professional takes these factors into account when making adjustments.
- Although you can expect to budget 10 to 15% of the purchase price of your television for a professional calibration, consider it an entertainment investment that will pay dividends for years to come.

### What You Can Expect

- A calibration session includes two inputs on the set, so no matter which you use, you will get the best image clarity and sharpness your HDTV can provide.
- A professional will use color analyzer equipment to objectively tune color saturation and temperature as precisely as possible, letting you see video exactly the same way it looked when it was created.
- Your HDTV's contrast will be set up to provide greater video detail as well as the darkest blacks and brightest whites.



# HDTVs

## Screen Technology Differences



### LCD (liquid-crystal display)

LCDs can use one of two backlight technologies. CCFLs (cold cathode fluorescent lamps) are the most common, but LEDs are the latest backlight technology to hit the LCD scene. (See the “LED” section for more info on LED TVs.)

#### Pros

- The thin profiles and light weight of LCDs make them easy to mount on a wall.
- Power demands are a bit lower than comparably sized plasma displays and considerably lower than CRT televisions.

#### Cons

- Fast-moving images may suffer from a slight trailer effect, but with improved

LCD technology, the effect is barely perceptible.

- When pixels stick on or off, they show up as either a pinpoint of bright light or black, which can be distracting on-screen.
- From certain viewing angles, LCDs will lose video contrast and color.
- LCDs with CCFL backlighting suffer from leaking light, and unlike LEDs, they can't dim certain areas on-screen. This may result in blacks and whites that appear to be more gray in color.

#### Best For

- Streaming PC content
- Bright, sunny rooms

### LED (light-emitting diode)

LED TVs are actually a type of LCD TV. These sets use one of two LED backlight technologies:

- Full-array lighting places LEDs behind the screen in a grid pattern, letting the TV dim certain LEDs for the best contrast ratios available.
- Edge-lit sets have LEDs placed around the frame of the TV, and light is directed toward the center of the screen. Edge-lit models cost less than full-array sets and are a lot thinner.

#### Pros

- By using LEDs, these sets use a lot less electricity than other HDTVs, and

they don't contain harmful mercury.

- Overall, LED TVs are one-third thinner than other LCD TVs and have longer life spans.
- Plasmas are well-known for their deep blacks, crisp whites, and fast response times, but LED TVs closely match in performance.

#### Cons

- These sets are costly because they feature a relatively new technology.
- Blooming, or a halo effect, may encircle bright images that are on dark backgrounds.

#### Best For

- Eco-conscious viewers
- Fast-paced gaming

### Plasma

#### Pros

- A plasma TV's phosphors light up evenly across the screen to create images, which are consistently bright and clear with vibrant colors.
- The contrast ratio is high, so you'll see some of the darkest blacks and brightest whites.

- The design and technology of plasma TVs lend themselves to large screen sizes—typically 50 inches or greater.
- Rapid pixel response means no blurry motion.
- Wide viewing angles give you the same high-quality images on-screen no matter where in the room you happen to be sitting.

#### Cons

- Some plasmas are susceptible to image burn-in if not cared for properly.
- Low air pressure and high altitudes may cause plasmas to buzz.
- Some plasmas have highly reflective glass, which isn't ideal in sunny settings.

#### Best For

- Large groups who watch TV together
- Movies or sports with nonstop action

### RPTV (rear-projection TV)

#### Pros

- RPTVs are surprisingly lightweight for their sizes.
- You'll find exceptional picture quality on very big screens (65 inches and larger).

- As screens get bigger, RPTVs tend to be more cost-effective than an LCD, LED, or plasma TV.

#### Cons

- With depths of 16 to 24 inches, these TVs are far too big and bulky to mount on a wall.

- RPTVs require lamp replacements every few years.

#### Best For

- Anyone who wants to bring a cinematic experience home
- Big, roomy home theaters





# HDTV Glossary

Balderdash! OK, HDTV jargon isn't quite *that* bad, but there are a few terms that every shopper needs to know. Here is your cheat sheet.

**aspect ratio**—Put simply, it's the shape of the TV's screen. An HDTV has a wider picture than a traditional TV of the same vertical screen height. An HDTV has a 16:9 aspect ratio, meaning that if its screen were 16 inches wide, it would be 9 inches tall. A regular 4:3 TV screen would be 12 inches wide at the same 9-inch height.

**HDMI (High-Definition Multimedia Interface)**—A type of cable connection that carries both high-resolution video and uncompressed multichannel audio between HDTVs, home-theater receivers, and the other components required for your home-theater setup. HDMI cables maintain top picture and sound quality.

**HD tuner**—A built-in tuner for receiving local high-def broadcast TV channels. You won't need one if you have cable or satellite service. Most HDTVs include one, but separate HD tuners and antennas are available if your TV doesn't have one.

**interlaced**—When an HDTV displays an interlaced image, as in 1080i or 480i resolutions, it really shows you every other horizontal line of a frame of video (called a field) at a time. Sixty times a second, the TV displays the other field of the frame, or the lines not shown in the previous field. Interlaced video can appear to flicker or might cause moving objects on-screen to have blurred edges.

**LCD (liquid-crystal display)**—Like a notebook's screen, an LCD HDTV uses a fluid crystal substance to form pixels of color in front of a backlight. LCDs may not be able to match plasma TVs' deep black and gray areas, but they're lighter, sometimes less fragile, and considered easier to set up. These work better in brighter rooms or if you will be playing unchanging images on the screen for an extended period of time.

**plasma**—Plasma TVs use a tiny tube of gas for each pixel, and electricity makes each pixel glow. Plasmas create deeper blacks and sometimes brighter colors than LCDs and have better contrast. These also offer slightly better viewing angles. However, older or less expensive models can also suffer from permanent screen

damage if an unchanging image, such as a TV channel's stock ticker or parts of certain video games, is displayed too long.

**progressive scan**—A TV showing a progressively scanned image, as in 1080p or 720p resolutions, displays a full frame of video (both odd-lined and even-lined fields) all at once. Progressive scan video looks sharper than interlaced does and doesn't flicker.

**projection**—Some large-screen HDTVs offer lower-priced alternatives to LCDs or plasmas by using projection technologies. These technologies vary, but all projection TVs throw light on a screen from the front or rear. This means they are bulkier than plasmas or LCDs, but some sets have stellar picture quality.

**viewing angle**—No matter where you sit in front of an HDTV with a wide viewing angle, such as 170 degrees, its picture should look reasonably good. Test this before you buy.

**widescreen**—A TV or monitor that's wider horizontally in relation to its vertical height. HDTVs typically have a 16:9 aspect ratio rather than an older 4:3 display.

## Should You Get An LCD Or LED-LCD TV?

So you've decided to get an LCD TV. The next step is deciding *which* LCD TV to invest in. LCDs use different kinds of lights to project an image onto the screen. A traditional LCD uses CCFLs or EEFLs whereas new LED-LCDs use LEDs.

|   |   | Light projection  | Size  | Dimensions; Weight***                          | Native resolution  | Viewing angle  | Inputs & Outputs  | Refresh rate**                                  |
|---|---|---|---|--|--|--|---|---|
|   | What It Means   | How images are projected on-screen; type of backlight an LED-LCD uses | The diagonal measurement of the TV's screen | Height x width x depth; How much the TV weighs | A fixed TV resolution; images are best displayed in this | The angle at which the viewer can see the screen clearly | Inputs let you connect devices; Outputs transfer information to peripherals | Speed at which a screen is redrawn every second |
|    | <b>Insignia NS-37L550A11</b><br>MSRP: \$629.99*<br>SKU 9602959                | CCFL  | 37 inches                                   | 24.6x35.5x9.5 inches; 32.4 pounds (with stand) | 1080p  | N/A  | 4 HDMI, 1 Component, 1 Composite, 1 PC; 2 audio outputs                     | 120Hz   |
|    | <b>Panasonic VIERA TC-L42U25</b><br>MSRP: \$899.95*<br>SKU 9783658            | EEFL  | 42 inches                                   | 25.1x40.2x4.2 inches; 39.7 pounds              | 1080p  | 178 degrees  | 3 HDMI, 1 Component, 2 Composite, 1 PC; 1 audio output                      | 120Hz   |
|   | <b>LG LD520</b><br>MSRP: \$1,900*<br>SKU 9797709                              | CCFL  | 55 inches                                   | 32.9x53.4x4.3 inches; 72.5 pounds              | 1080p  | 178 degrees  | 3 HDMI, 1 Component, 1 Composite, 1 USB; 2 audio outputs                    | 120Hz   |
|  | <b>Samsung LN60C630</b><br>MSRP: \$2,499.99*<br>SKU 9904809                   | CCFL  | 60 inches                                   | 33.3x51.3x3.4 inches; 70.6 pounds              | 1080p  | N/A  | 4 HDMI, 2 Component, 2 Composite, 2 USB                                     | 120Hz   |
|  | <b>Samsung UN55C6300SF</b><br>MSRP: \$2,499.99*<br>SKU 9790851                | LED (edge-lit)  | 55 inches                                   | 50.5x30.2x 1.18 inches; N/A                    | 1080p  | N/A  | 4 HDMI, 1 Component, 1 Ethernet, 2 USB; 2 audio outputs                     | 120Hz   |
|  | <b>Sony BRAVIA KDL60EX700</b><br>MSRP: \$2,999.99*<br>SKU 9763394             | LED (edge-lit)  | 60 inches                                   | 34.6x56.4x 2.6 inches; 60.2 pounds             | 1080p  | 178 degrees  | 4 HDMI, 2 Composite, 1 USB, 1 Ethernet; 1 audio output                      | 120Hz   |
|  | <b>Mitsubishi Unisen Diamond LT-55265</b><br>MSRP: \$3,199.98*<br>SKU 9941099 | LED (edge-lit)  | 55 inches                                   | 33.3x50.9x 3 inches; 65.8 pounds               | 1080p  | N/A  | 4 HDMI, 2 Component, 1 Ethernet, 1 USB; 1 audio output                      | 240Hz   |
|  | <b>Sharp LC52LE925UN</b><br>MSRP: \$3,899.99*<br>SKU 1166408                  | LED (edge-lit)  | 52 inches                                   | 31.93x49.63x 1.54 inches; 76.1 pounds          | 1080p  | 176 degrees  | 4 HDMI, 1 HD Component, 1 Ethernet; 2 audio outputs                         | 240Hz   |

LED-LCD

See p. 8









\*Prices listed in this issue are for general reference and may vary from retailer pricing.  
\*\*\*Unless specified, this is without stand

\*\*Comparing refresh rates between plasma and LCD TVs is like comparing apples to oranges.  
For more in-depth information about refresh rates, please ask a sales associate.



## Which Plasma TV Is Best For You?

If you're planning on buying a plasma HDTV, it might be hard to decide on one just by looking at a wall of gorgeous sets. Refer to this chart for further help when shopping.

|   |  | Size  | Dimensions;<br>Weight***                         | Native<br>resolution  | Viewing<br>angle   | Inputs  | Outputs   | Refresh<br>rate**                               |
|---|--|---|--|---|--|---|---|---|
|   | What It Means  | The diagonal measurement of the TV's screen | Height x width x depth; How much the TV weighs   | A fixed TV resolution; images are best displayed in the native resolution | The maximum angle at which the viewer can see the screen clearly | Inputs let you connect your components to your TV | Outputs transfer information from your TV to peripherals, such as audio to speakers | Speed at which a screen is redrawn every second |
|    | <b>Insignia NS-42P650A11</b><br>MSRP: \$499.99*<br>SKU 9748831 | 42 inches                                   | 27.5x40.6x11.9 inches;<br>43 pounds (with stand) | 720p  | N/A  | 2 HDMI, 2 Component, 1 Composite                  | 2 audio   | 600Hz   |
|    | <b>Samsung PN42C450</b><br>MSRP: \$599.99*<br>SKU 9791253      | 42 inches                                   | 24.8x40.6x2.7 inches; 38.6 pounds                | 720p  | N/A  | 3 HDMI, 2 Component, 1 Composite, 1 PC            | N/A   | 600Hz   |
|   | <b>Insignia NS-50P650A11</b><br>MSRP: \$697.99*<br>SKU 9745916 | 50 inches                                   | 31.25x47.37x11.87 inches;<br>50.7 pounds         | 720p  | N/A  | 2 HDMI, 2 Component, 1 Composite                  | 2 audio   | 600Hz   |
|  | <b>Samsung PN50C450</b><br>MSRP: \$749.99*<br>SKU 9789725      | 50 inches                                   | 28.5x47.37x11.25 inches;<br>51.8 pounds          | 720p  | N/A  | 3 HDMI, 2 Component, 1 Composite, 1 PC            | N/A   | 600Hz   |
|  | <b>Panasonic TC-P42U2</b><br>MSRP: \$799.95*<br>SKU 9761059    | 42 inches                                   | 26.1x40.6x3.7 inches; 49.6 pounds                | 1080p   | N/A  | 3 HDMI, 2 Component, 2 Composite                  | 1 audio   | 600Hz   |
|  | <b>Panasonic TC-P50G20</b><br>MSRP: \$1,499.95*<br>SKU 9788953 | 50 inches                                   | 30.3x48x3.5 inches; 57.3 pounds                  | 1080p   | N/A  | 3 HDMI, 2 Composite, 2 Component, 1 PC            | 1 audio   | 600Hz   |
|  | <b>LG INFANIA 50PK950</b><br>MSRP: \$1,699.99*<br>SKU 9720169  | 50 inches                                   | 29x46.9x2.1 inches; 66.6 pounds                  | 1080p   | N/A  | 4 HDMI, 2 Component, 1 PC, 1 USB, 1 LAN           | N/A   | 600Hz   |
|  | <b>Samsung PN50C7000</b><br>MSRP: \$1,999.99*<br>SKU 9809723   | 50 inches                                   | 29.5x47.7x1.4 inches; 54 pounds                  | 1080p   | N/A  | 4 HDMI, 2 Component, 1 Composite, 1 PC, 1 USB     | N/A   | 600Hz   |

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\*\*\*Unless specified, this is without stand

\*\*Comparing refresh rates between plasma and LCD TVs is like comparing apples to oranges.  
For more in-depth information about refresh rates, please ask a sales associate.

## NOTEWORTHY

# Accessories & Services

As you head toward the HDTV section of your local consumer electronics store, you'll invariably pass shelves of bland-looking HDTV accessories. There are a handful of accessories that are vital to getting the most from your HDTV. The following is a rundown of the accessories we recommend to complete your home-theater setup.



## WALL MOUNTS & BRACKETS

- View your HDTV from the best possible angle
- Adjust your TV's position by tilting it up or down as needed
- Maximize space in your viewing room by hanging up your TV



## CLEANING KIT

- Protect your HDTV's screen by using specially formulated sprays and cloths while cleaning it
- Eliminate the danger of scratching delicate screens
- No-drip formulas prevent damage to other home-theater equipment



## CORD-CONCEALMENT KIT

- Hide multiple cords while keeping them organized
- Minimize cord clutter, especially with wall-mounted sets
- Keep the focus on your new HDTV, not the cords connected to it



## TV STANDS

- Offer flexibility if you're unable to mount your HDTV on the wall
- Available in a variety of finishes to match any décor
- Provide a place for additional home-theater equipment



## HDMI CABLES

- Carry uncompressed digital audio and video signals to and from your HDTV and its components
- Eliminate interference from other components with shielding (found in higher-end cables)



## UNIVERSAL REMOTE CONTROL

- Simplify your home-theater setup with one remote that can control all of your components
- Program different functions so that you will be able to watch a movie by pressing just one button, for example
- Easily view options in the dark with a backlit LCD



## SURROUND-SOUND SYSTEM

- Maximize your HDTV experience with theater-like audio
- Feel like you're in the movie scene instead of just watching it
- Even out softer and louder programming with an equalizer



## SURGE PROTECTORS & POWER CONDITIONERS

- Protect your home theater from potential damage by using a surge protector that will absorb electrical fluctuations
- Filter out "dirty power" (also known as electrical "noise" or radio interference) that can degrade your home theater's audio and video with a power conditioner
- Have peace of mind knowing that your home theater will give you its peak performance for the longest amount of time



## HOME-THEATER SERVICES

A home theater is a pretty big investment, so it's wise to consider letting a professional handle your installation and setup. Let your local CE retailer tackle the following tasks, and you'll be able to enjoy the full glory of HD in no time.

- Home Theater In-Home Consultation
- TV Recycling
- TV Calibration
- TV Mounting & Cord Concealment
- Remote Control Programming
- Speaker Setup



# The JVC Picsio GC-WP10 Won't Hold You Back

## Waterproof Your Memories

The current trend in camcorders is the smaller and sleeker the better, and the easy-to use JVC Picsio GC-WP10 (\$199.95; [www.jvc.com](http://www.jvc.com)) certainly fits that criteria. It's a sporty movie maker designed to record all of life's moments in high definition, without limiting your lifestyle in the process.

### Record Whenever, Wherever

From serious outdoor enthusiasts to adventurous vacationers to dedicated parents who want to capture their kids' sporting events in a steady rain, this pocket-sized Picsio camcorder lets you capture your memories anywhere, anytime.

The device is waterproof to a depth up to 10 feet, so you can record the underwater world while snorkeling. Its sturdy body makes it tough as nails, too, so you can take it on a mountain biking trip without worry. And with the Picsio's electronic image stabilization that reduces camera shake, you can avoid that unpleasant carnival ride feel when viewing videos from your journey. The Picsio is touch-panel controlled and sports a large 3-inch screen. You just touch the icon graphics to intuitively operate everything from recording to playback. It even works if you have gloves on, so you and a friend can view the footage after snowboarding down a mountain and reaching the bottom.



JVC Picsio GC-WP10  
\$199.95  
[www.jvc.com](http://www.jvc.com)

### Notable Features

- Records footage in Full HD (1080p)
- Takes 5MP still pictures so you can leave your digicam at home
- Built-in software lets you easily upload videos to YouTube and Facebook or export to your iTunes library for Windows users
- Enjoy playback on an HDTV via the HDMI output
- Records on SD/SDHC/SDXC memory cards

## HOW TO BUY A

# Digital Photo Frame

## Capture The Best Features



Rather than let your memorable moments sit unseen on a memory card or hard drive, a digital photo frame will let you enjoy them. To ensure you get the right digital photo frame for your precious memories, consider these features.

**Screen size.** Determining what screen size you need should depend on where you want to present your images. Unlike traditional picture frame sizes, digital photo frame screens are measured diagonally. Sizes range from 7 to 15 inches, so make sure you find a frame that best meets your needs. For instance, a smaller 7-inch frame is ideal for a desk or coffee table because it won't take up too much space.

Unlike traditional picture frame sizes, digital photo frame screens are measured diagonally.

**Image quality.** To view your photos with the up-most clarity, you'll want to pay attention to the frame's resolution, such as 800 x 600. The higher the numbers, the more detailed your images will appear. Frames also have a standard (4:3) or widescreen (16:9) aspect ratio. Most cameras capture images in a standard ratio, so a 4:3 frame is likely to satisfy the needs of most casual photographers. However, if you shoot panoramic shots or HD video, a widescreen frame that has a ratio of 16:9 is more suitable.

**Built-in memory.** Internal memory allows you to store your image files in the frame rather than leaving a memory card, thumb drive, or camera connected for image playback. A frame with plenty of internal memory, such as 2 to 4GB, will let you continue to use your memory cards and camera after you've transferred and saved a large number of files to the frame.

... store your image files in the frame ...

**Wi-Fi access.** To view photos from out-of-town friends and family without leaving your home, look for a frame with built-in Wi-Fi access. This feature lets you send and receive photos directly through your frame. Some models will let you create an email specific to the device, so you can share it with others to receive photos and videos from them.

This feature lets you send and receive photos directly through your frame.





# A Look At Memory Card Specs

## Examine Capacity & Speed

When you shop for a memory card, you're looking for two things: capacity and speed. Depending on your needs, one may be more important than the other, and we'll help you determine the size and speed of the memory card that's right for you.

### Capacity

- With an average 10MP camera, a 2GB memory card will hold approximately 600 images, a 4GB card could store 1,200, and an 8GB card would keep up to 2,000. The actual number of pictures you can take varies by the file format and image settings of your camera, but this should give you an idea of what to expect.
- A person who takes hundreds of shots at a time, such as the family shutterbug or a photo enthusiast, is more apt to need a large capacity memory card (4GB or more) than someone who only takes a few photos.
- Videos require more capacity than images, but how much footage you can record varies widely due to a card's capacity and the quality level of your video (SD, 720p, or 1080p).
- If your digital camcorder or camera shoots video in HD, a memory card with 8GB or 16GB will give you the freedom to shoot more than half an hour of footage.

### Speed

- With photos, the memory card's maximum transfer rate typically determines how quickly your camera will be able to take another photo.
- A memory card with a faster speed than another is more ideal for photographing action because you won't wait as long between each shot.
- In terms of video, the sustained transfer rate of a memory card is more important than the maximum speed rating, because the camera must constantly write video data to the card.
- SD and SDHC memory cards feature a sustained speed rating, such as Class 2, Class 4, and Class 6. The number in the rating is the MBps the memory card is guaranteed to transfer at. A higher number is preferable, and an SD card with a Class 4 or higher rating is an HD digital camcorder requisite.

# Epson's Newest High-Performance Printer

## Brilliant Image Quality—Only From Epson

If you're going to invest in a printer, don't settle for a model that will just get the job done; instead, consider a printer that is truly built to perform. Available exclusively at Best Buy and located near the digital cameras, the Epson Artisan 725 Arctic Edition (\$199.99) is sleek and compact. It performs powerfully and produces the projects you care about at top quality. Both fast and easy to use, this Artisan printer delivers in many ways.

Ultra Hi-Def/Lab Quality Prints, Built in Wi-Fi and Networking, Automatic 2 sided printing, and 2.5-inch LCD with touch panel



Best Buy Exclusive  
 Epson Artisan 725  
 Arctic Edition  
 \$199.99

[Print-Copy-Scan]

### Imagination Meets Innovation

The Artisan 725 is a three-in-one model, which means it can print documents, copy, scan, as well as produce photo prints, so you can print all of your creative projects, such as personal note paper, invitations, and more. You can also print brilliant photos in as fast as 10 seconds without sacrificing quality. The images will appear clear and vibrant, thanks to Claria Hi-Definition Ink and Epson's exclusive printer and ink technology.

### Connected Printing

The Epson Artisan 725 features built-in Wi-Fi connectivity (in addition to Ethernet networking), so you can wirelessly print and scan from any location in your house when you're connected to your home wireless network. Or, if you have a compatible mobile device, such as a smartphone, you can print directly from your phone.

### Perfect Photos Every Time

When you share photos with family and friends you want them to be impressed. Epson understands the importance of sharing and preserving photos, which is why every print is smudge, scratch, water, and fade resistant. And, if you own a collection of old, faded photos, you can restore their color using the Artisan 725 printer. You can also print directly onto CDs or DVDs, giving your projects a personalized and professional look.

# Meet Olympus' Revolutionary PEN E-PL1

## Pro-D-SLR Quality + Point & Shoot Simplicity + HD Video

When we talk about D-SLR cameras, we often use words such as vibrant, lifelike, and sharp to describe their photo quality. Those colorful phrases can be attributed to the large image sensors that D-SLRs have. In the PEN E-PL1 (\$599.99; [www.olympus.com](http://www.olympus.com)), Olympus installed an image sensor that rivals the image quality that bulky, heavy D-SLRs have to offer—but this easy-to-use camera model is compact and won't weigh you down.

### Performance

- 12.3MP Live-MOS image sensor is eight times larger than what's found on most compact cameras. The same sensor is used in Olympus' E-30 and E-620 D-SLR cameras.
- Select photo effects and adjustments with the touch of a button and see instant on-screen results with Live Guide.
- Optional interchangeable camera lenses let you improve your shot composition and give you creative freedom.
- With three modes of IS (image stabilization) built into the camera body, you won't need to purchase expensive lenses that have IS. An add-on adapter makes the camera compatible with micro four-thirds lenses.
- Capture 720p HD video at 30fps with the one-touch Direct HD Movie Button.

### Intelligent Features

- Choose from 19 scene-select modes and Intelligent Auto Mode to select the best camera settings for everyday shooting.
- To prevent blurry faces in portrait shots, Face Detection can find up to eight faces, even if they're moving.
- Built-in pop-up flash fills dark environments with light so your subjects look their best. Continuous AF Tracking locks on your subject to adjust focus and brightness.
- AF Live View allows you to compose and capture shots using the 2.7-inch LCD screen.
- Supersonic Wave Filter removes dust and other particles from image sensor for spot-free images.
- Six in-camera art filters let you use creative photo and video effects, such as Pop Art and Gentle Sepia.

### Portable Size

- Camera body weighs a little over 10 ounces.
- Only 1.6 inches deep and 2.8 inches tall.
- 2.7-inch LCD with anti-reflective coating.



## ESSENTIAL THINGS TO KNOW

# Photo Printers

**Q Why do I need a photo printer to print photos?**

**A** Photo printers offer print head and ink-blending technology that's more sophisticated than that of most other inkjet printers. If you're seeking high-quality prints of your digital images, you'll get better results with a photo printer.

**Q When printing photos, do I need specific inks and paper?**

**A** For consistently excellent results, use ink and paper formulated by the same printer manufacturer; the ink and paper are designed to work together and in tandem with the manufacturer's print head.

**Q What features should I look for in a photo printer?**

**A** Look for a printer that can print on a variety of paper sizes and stock thicknesses. Printers with built-in memory slots are convenient for printing without a computer. Consider a Wi-Fi-capable printer, which can be conveniently placed anywhere within range of your wireless network.

**Q When choosing a photo printer, should I look for two-cartridge print heads or print heads with four or more ink cartridges?**

**A** More cartridges usually mean better blending of inks and thus prints that are more accurate in terms of color, contrast, saturation, and highlights.

**Q Do I need a PC in order to print my photos at home?**

**A** Most photo printers include integrated memory card readers and the ability to connect your camera directly to the printer, allowing you to print without a computer. Many photo printers include LCD panels on which you can view—or even edit—your images prior to printing.

**Q Do I need special software to print my photos?**

**A** Generally the printer includes all the software you need to print your images. If you need to edit your images prior to printing, you may want photo-editing software that's more sophisticated than what's supplied with your printer or computer's operating system.

**Q Can I get an all-in-one printer that I can use to print photos?**

**A** Many all-in-one printers can handle printing photos. The ability to produce quality photos will normally be noted in the printer's features list. This type of printer is best for those who are looking for a multifunctional device that can also print, scan, copy, and fax photos and other documents.

**Q Can I make borderless prints with a photo printer?**

**A** Almost all photo printers offer borderless prints, which lack white edges and look like prints from a photo lab.





# Digital Imaging Glossary

Wondering what all of that lingo on camera boxes means? Use this glossary to help decode the world of digital imaging.

**aperture**—An iris-like diaphragm opening that can expand and contract the lens to let you control the amount of light that passes through it, thus affecting the exposure. The term “f-stop” can be used interchangeably with aperture.

**burst mode**—A camera mode that will let you capture several shots consecutively after pressing the shutter only one time.

**CCD**—A charge-coupled device is a type of image-sensing component. It converts light into energy that can be stored as digital data on your camera.

**depth of field**—The area that is in focus in front of and beyond the subject of your photo.

**digital zoom**—Magnifies an image digitally by cropping it and filling in the rest with interpolated pixels, thus degrading the quality. Even if the numbers are impressive, never choose a camera based on digital zoom.

**f-stop**—See aperture. Smaller f-stop numbers mean a wider lens opening; larger f-stop numbers mean a narrower lens opening.

**ISO**—For digital cameras, the ISO setting measures the sensitivity to light (similar to how it does with film). Digital camera ISO settings, such as 200, 400, and up, should capture photos as if one were using film with such a speed. Lower ISO settings mean you need more light and vice versa.

**LCD**—The screen on the back of the camera that lets you see a live-action view of your subject or your photo after you’ve taken it.

**lens**—The apparatus on the front of the camera that gathers and directs light toward the image sensor. In a digital camera, the lens likely has both an optical and digital zoom.

**megapixel**—Approximately 1 million pixels. The higher the megapixel count, the higher the resolution and the more you can crop, which means (in general) better-quality photos.

**memory card**—Because digital cameras have very little onboard memory, they need flash memory cards to store more than a dozen or so images. The type of memory card you need depends on the make and model of your camera. Some of the most popular memory cards are Secure Digital, MultiMedia Card, Compact Flash, and Sony Memory Sticks. In general, memory cards are quite small.

**noise**—The small statistical variations among pixels that lead to (usually) minor distortions of color in a photo.

**optical zoom**—The camera’s mechanical ability to move the lens physically closer to your subject. With optical zoom, the higher the number (such as 5X or 10X), the better. When choosing a camera, always consider the optical zoom, not the digital zoom. Digital zoom artificially adds pixels.

**resolution**—The number of pixels in an image. The higher the resolution, the more detail and quality in a photo. Resolution is measured in a proportion (such as 2,272 x 1,704).

**shutter**—A mechanism that opens and closes to allow light to pass through the lens. You can usually control the camera’s shutter speed.

**shutter speed**—The length of time a camera’s shutter is open to let light through the lens and hit the sensor, which records the image. This is expressed in fractions of a second: For instance, a shutter speed of 1/250 means that the shutter is open for 1/250th of a second.

**viewfinder**—The small opening in the camera that the user looks through to frame a shot. Some digital cameras don’t have a viewfinder and only use the camera’s LCD to frame the shot.

**white balance**—Light levels are adjusted electronically to ensure whites in a certain environment are pure, leading to more life-like colors. White balance can usually be manually adjusted, too.

## Which Point-&-Shoot Camera Is Best For You?

If you're a little confused about the most important features in a digital camera, you're not alone. In this chart, we compare features from select digital cameras, and we also explain what these features mean.

|   |  | <b>Resolution;<br/>Optical zoom</b>   | <b>Shutter<br/>speed</b>  | <b>Memory<br/>card</b>                                | <b>LCD size</b>                                 | <b>Battery life</b>                                     | <b>ISO</b>   | <b>Movie<br/>mode</b>                                    |
|---|--|---|---|---|---|---|--|--|
|   | <b>What It Means</b>   | More pixels mean bigger and clearer prints; Moves the lens closer to your subject | A faster shutter speed will let you snap action photos without blur | Removable card that stores your photos in your camera | The LCD is the screen on the back of the camera | Based on how many shots you can take on a single charge | A higher ISO lets you take better photos in low-light settings | Lets you record short video clips on your digital camera |
|    | <b>Kodak Easyshare M530</b><br>MSRP: \$129.95*<br>SKU 9765189        | 12.2MP; 3X  | 1/8 to 1/4,000 second   | SD/SDHC   | 2.7 inches                                      | N/A   | Auto; Manual: 80, 100, 200, 400, 800, 1000                     | Yes  |
|    | <b>Fujifilm FinePix XP10</b><br>MSRP: \$179.95*<br>SKU 9772604       | 12.2MP; 5X  | 1/4 to 1/2,000 second   | SD/SDHC   | 2.7 inches                                      | N/A   | Auto; Manual: 100, 200, 400, 800, 1600                         | Yes  |
|  | <b>Sony Cyber-shot W370</b><br>MSRP: \$229.99*<br>SKU 9757839        | 14.1MP; 7X  | 2 to 1/1,600 seconds  | Memory Stick Duo/PRO Duo/PRO HG-Duo/SD/SDHC           | 3 inches  | 230 shots   | Auto; Manual: 80, 100, 200, 400, 800, 1600, 3200               | Yes  |
|  | <b>Nikon Coolpix S8000</b><br>MSRP: \$299.95*<br>SKU 9758674         | 14.2MP; 10X   | 1 to 1/2,000 second   | SD/SDHC   | 3 inches  | 210 shots   | Auto; Manual: 100, 200, 400, 800, 1600, 3200                   | Yes  |
|  | <b>Olympus Stylus TOUGH-6020</b><br>MSRP: \$299.99*<br>SKU 9765213   | 14MP; 5X  | 1/4 to 1/2,000 second   | SD/SDHC   | 2.7 inches                                      | 200 shots   | Auto; Manual: 80, 100, 200, 400, 800, 1600                     | Yes  |
|  | <b>Nikon Coolpix S80</b><br>MSRP: \$329.95*<br>SKU 1229231           | 14.1MP; 5X  | 2 to 1/1,5000 seconds   | SD/SDHC/SDXC  | 3.5 inches                                      | 150 shots   | Auto; Manual: 80, 100, 200, 400, 800, 1600, 3200, 6400         | Yes  |
|  | <b>Canon PowerShot SD4500 IS</b><br>MSRP: \$349.99*<br>SKU 1218465   | 10MP; 10X   | 1 to 1/4,000 second   | SD/SDHC/SDXC/MMC/MMC Plus/HC MMC Plus                 | 3 inches  | 150 shots   | Auto; Manual: 125, 200, 400, 800, 1600, 3200                   | Yes  |
|  | <b>Fujifilm FinePix REAL 3D W3</b><br>MSRP: \$499.95*<br>SKU 1216616 | 10MP; 3X  | 1/4 to 1/1,000 second   | SD/SDHC   | 3.5 inches                                      | N/A   | Auto; Manual: 100, 200, 400, 800, 1600                         | Yes  |

\*Prices listed in this issue are for general reference and may vary from retailer pricing.



## Which D-SLR Is Best For You?

As D-SLR prices keep coming down, more photographers are turning to them, both as a first camera and as a trade-up to something better. In this chart, we'll help you sort through some of the features and performance specs of select D-SLR cameras.

|                              |   | Resolution  | LCD size   | ISO range  | Kit lens                                   | Burst speed   | Shutter speed   |
|------------------------------|---|---|--|--|--|---|---|
| What It Means                |   | Image sensor in megapixels; more means a bigger image                       | Diagonal measurement of the screen on the back of the camera | A higher ISO range will let you take better photos in low-light situations | Standard lens bundled with the camera body | Frames per second (fps) you can shoot while in burst mode | The wider the range, the greater the gamut of long exposures to frozen action |
| Compact Interchangeable Lens |    | <b>Olympus PEN E-PL1</b><br>MSRP: \$599.99*<br>SKU 9769158 <i>See p. 22</i> | 12.3MP   | 2.7 inches   | 200 to 3200                                | 14-42mm<br>f/3.5-5.6                                      | 3fps<br><br>60 to 1/2,000 seconds   |
|                              |    | <b>Sony NEX-3</b><br>MSRP: \$599.99*<br>SKU 1034438                         | 14.2MP   | 3 inches   | 200 to 12800                               | 18-55mm<br>f/3.5-5.6                                      | 7fps<br><br>30 to 1/4,000 seconds   |
|                              |   | <b>Pentax K-X</b><br>MSRP: \$649.95*<br>SKU 9555787                         | 12.4MP   | 2.7 inches   | 200 to 6400                                | 18-55mm<br>f/3.5-5.6                                      | 4.7fps<br><br>30 to 1/6,000 seconds   |
|                              |  | <b>Nikon D3100</b><br>MSRP: \$699.95*<br>SKU 1222817                        | 14.2MP   | 3 inches   | 100 to 3200                                | 18-55mm   | 3fps<br><br>30 to 1/4,000 seconds   |
|                              |  | <b>Canon EOS Rebel T2i</b><br>MSRP: \$899.99*<br>SKU 9778635                | 18MP   | 3 inches   | 100 to 6400                                | 18-55mm<br>f/3.5-5.6                                      | 3.7fps<br><br>30 to 1/4,000 seconds   |
|                              |  | <b>Canon EOS Rebel 60D</b><br>MSRP: \$1,099*<br>SKU 1222177                 | 18MP   | 3 inches   | 100 to 6400                                | N/A<br>(body only)  | 5.3fps<br><br>30 to 1/8,000 seconds   |
|                              |  | <b>Olympus E-3</b><br>MSRP: \$1,299.99*<br>SKU 8682776                      | 10.1MP   | 2.5 inches   | 100 to 3200                                | N/A<br>(body only)  | 5fps<br><br>60 to 1/8,000 seconds   |
|                              |  | <b>Nikon D300s</b><br>MSRP: \$1,699.95*<br>SKU 9457349                      | 12.3MP   | 3 inches   | 200 to 3200                                | N/A<br>(body only)  | 7fps<br><br>30 to 1/8,000 seconds   |

\*Prices listed in this issue are for general reference and may vary from retailer pricing.

# Which Digital Camcorder Is Best For You?

Digital camcorders come in a number of formats: DVD, hard drive, flash drive, MiniDV, and high definition are the most common. By comparing the following digital camcorders, you can determine which recording format and product best fit your style.

|             |  | LCD size                          | Optical zoom;<br>Digital zoom                                     | Recording speeds   | Memory card   | Digital still resolution   | Lines of resolution   |
|-------------|--|-----------------------------------|---|--|---|--|---|
|             | What It Means  | Diagonal length of viewing screen | Two methods for magnifying depth of field; optical zoom is better | The speeds a particular camcorder can utilize during recording | Compatible flash card types (cards not included unless noted) | The number of megapixels the camcorder can capture in still images | Number of lines of horizontal resolution; the higher the number, the greater the detail |
| Flash Drive |  <b>JVC Everio GZ-MS230</b><br>MSRP: \$269.95*<br>SKU 9731192       | 2.7 inches                        | 39X; 800X   | Ultra/Fine/<br>Norm/Eco  | SD/SDHC   | 0.3MP  | 480   |
|             |  <b>Canon FS300</b><br>MSRP: \$299.99*<br>SKU 9739361               | 2.7 inches                        | 37X; 2,000X   | XP/SP/LP   | SD  | 0.45MP   | 480   |
|             |  <b>Insignia NS-DV111080F</b><br>MSRP: \$299.99*<br>SKU 9769398    | 3 inches                          | 12X; 10X  | N/A  | SD/SDHC   | 10MP   | 1,080   |
|             |  <b>Samsung HMX-H205BN</b><br>MSRP: \$599.99*<br>SKU 9879545      | 2.7 inches                        | 20X; 220X   | N/A  | SDHC  | 4.7MP  | 1,080   |
|             |  <b>Canon VIXIA HF R11</b><br>MSRP: \$699.99*<br>SKU 9751699      | 2.7 inches                        | 20X; 400X   | FXP/XP+/<br>SP/LP  | SD/SDHC   | 1.73MP   | 1,080   |
| Hard Drive  |  <b>Panasonic HDC-SDT750K</b><br>MSRP: \$1,399.99*<br>SKU 1261554 | 3 inches                          | 12X; 700X   | HA/HG/HX/HE  | SD/SDHC/<br>SDXC  | 14.2MP   | 1,080   |
|             |  <b>Panasonic HDC-HS60K</b><br>MSRP: \$699.95*<br>SKU 9921715     | 2.7 inches                        | 25X; 60X  | HA/HG/HX/HE  | SD/SDHC/<br>SDXC  | 5MP  | 1,080   |
|             |  <b>Sony Handycam DCR-SR88</b><br>MSRP: \$399.99*<br>SKU 9880262  | 2.7 inches                        | 60X; 2,000X   | HQ/SP/LP   | Memory Stick<br>PRO Duo/SD/<br>SDHC                           | N/A  | 480   |

\*Prices listed in this issue are for general reference and may vary from retailer pricing.

# Which Fujifilm Digital Camera Fits Your Lifestyle?

People live their lives differently and have different needs for how they capture and share their images. This is why the FinePix line of digital cameras from Fujifilm has a camera for everyone, including the basic and trend-savvy user, the active family, and the image enthusiast—to ensure they never miss a photo opportunity.

# FUJIFILM

| Product Name<br>SKU            | JV100<br>9766719<br>(Black)  | Z70<br>9766737<br>(Black)  | JZ300<br>9789024<br>(Silver)  | XP10<br>9766746<br>(Blue)  | Z800EXR<br>1216698<br>(Red)  | S2700HD<br>9766755<br>(Black)   | F80EXR<br>9788944<br>(Black)  | F300EXR<br>1217148<br>(Black)   |
|--------------------------------|--|--|---|--|--|---|---|---|
| Additional<br>Colors Available | <br>9835594 | <br>9772598<br>9772589<br>9772561 |  | <br>9772604<br>9772659<br>9772631 |  |  |  |  |
| MSRP*                          | \$109.95   | \$129.95   | \$179.95  | \$179.95   | \$229.95   | \$219.95  | \$279.95  | \$329.95  |
| Resolution                     | 12MP   | 12MP   | 12MP  | 12MP   | 12MP EXR Sensor  | 12MP  | 12MP EXR Sensor   | 12MP EXR Sensor   |
| Optical Zoom                   | 3X   | 5X<br>non-extending  | 10X Wide<br>(28mm-280mm<br>equiv.)  | 5X<br>non-extending  | 5X<br>non-extending  | 18X Wide<br>(28mm-504mm<br>equivalent)  | 10X Wide<br>(27mm-<br>270mm equiv.)   | 15X Super<br>Wide (24mm -<br>360mm equiv.)  |
| LCD Size                       | 2.7 inches   | 2.7 inches   | 2.7 inches  | 2.7 inches   | 3.5-inch<br>touchscreen  | 3 inches +EVF   | 3 inches  | 3 inches  |
| HD Movie<br>Capture            | Yes;<br>1280x720   | Yes; 1280x720<br>dual shutter  | Yes; 1280x720   | Yes; 1280x720<br>dual shutter  | Yes; 1280x720  | Yes; 1280x720   | Yes; 1280x720<br>HDMI out   | Yes; 1280x720<br>HDMI out   |
| Face Detection                 | Yes  | Yes  | Yes   | Yes  | Yes  | Yes   | Yes   | Yes   |
| Auto Red-Eye<br>Correction     | Yes  | Yes  | Yes   | Yes  | Yes  | Yes   | Yes   | Yes   |
| Stabilization                  | Digital IS   | Digital IS   | Dual IS<br>(CCD Shift)  | Digital IS   | New Intelligent<br>IS  | Dual IS<br>(CCD Shift)  | Dual IS<br>(CCD Shift)  | New Intelligent<br>IS   |
| Tracking AF                    | Yes  | Yes  | Yes   | Yes  | Yes  | Yes   | Yes   | Yes   |
| Battery Type                   | Rechargeable<br>Li-Ion   | Rechargeable<br>Li-Ion   | Rechargeable<br>Li-Ion  | Rechargeable<br>Li-Ion   | Rechargeable<br>Li-Ion   | 4x AA   | Rechargeable<br>Li-Ion  | Rechargeable<br>Li-Ion  |
| Media Card Type                | SD/SDHC  | SD/SDHC  | SD/SDHC   | SD/SDHC  | SD/SDHC  | SD/SDHC   | SD/SDHC   | SD/SDHC   |
| Available Colors               | Black (in store<br>and online);<br>Blue (online)   | Black (in store<br>and online);<br>Silver, Blue,<br>Berry (online)   | Silver (online)   | Blue (in store<br>and online);<br>Black, Silver,<br>Green (online)   | Red (online)   | Black (in store<br>and online)  | Black (online)  | Black (online)  |
| Coolest Features               | Panorama<br>mode, Dual<br>Shot Mode  | Facebook and<br>YouTube<br>tagging   | Metal body,<br>only 22mm<br>thick   | Waterproof,<br>Shockproof,<br>Freezeproof,<br>Dustproof  | Tap & Shoot,<br>Dual Direction<br>GUI, Motion<br>Panorama 360°                     | Zoom Bracket-<br>ing, Instant<br>Zoom, Pano-<br>rama Mode                           | Face Recogni-<br>tion, Pet Detec-<br>tion, D-Range<br>up to 800%                    | Hybrid High Speed<br>AF with Phase<br>Detection, Motion<br>Panorama 360°            |

## FINEPIX REAL 3D W3 Digital Camera

SKU: 1216616 • \$499.95



- Capture HD images and movies in 3D and 2D
- View 3D photos and movies on the 3.5-inch 3D LCD without glasses
- Experience advanced 2D shooting capabilities

### Dual CCD & Optical Zoom System

- Dual 10 Megapixel CCDs capture a natural sense of depth
- Dual FUJINON 3X optical zoom lenses capture scenes with unsurpassed excellence

### Advanced 2D Capabilities

- The Dual Lens/Sensor system lets you capture two simultaneous tele/wide, Dual Color and Dual Sensitivity shots

### Easy 3D TV Connection

- View images and video on your 3D TV with an HDMI 1.4 cable (not included)

\* Prices listed in this issue are for general reference and may vary from retailer pricing.

FirstGlimpse



FUJIFILM

## Digital Camera Durable & Stylish



### FUJIFILM FinePix XP10

MSRP: \$179.95

SKU: 9766746 (Blue)

9772659 (Black)

9772631 (Green)

9772604 (Silver)

[www.bestbuy.com/fuji](http://www.bestbuy.com/fuji)

\* WATERPROOF | SHOCKPROOF | FREEZEPROOF | DUSTPROOF

### Quick Overview

From a rainy day to a snorkeling adventure to your toddler getting ahold of it, the FinePix XP10 can handle whatever life brings at it. Waterproof, shockproof, freezeproof, and dustproof, the XP10 is essentially "life proof." Capture stills and movies in HD quality. Tough enough for life's adventures and looks good capturing it.

### Perfect For

The FinePix XP10 is perfect for anyone who wants a camera that can go wherever life's adventures take them. From the birthday party to the beach to the ski slopes . . . even in the rain or underwater.

### Outstanding Benefits

- 12 megapixel; Fujinon 5x Optical Zoom; 2.7-inch LCD
- Waterproof to 10 ft, Shockproof from 3 ft, Freezeproof to 14°F & Dustproof
- One-touch capture of HD stills and movies with sound in 720p
- SR AUTO Automatic Scene Recognition mode detects six scene types
- Digital Image Stabilization helps eliminate blurry pictures
- Face Detection with Automatic Red Eye Removal
- Tracking Auto Focus keeps fast-moving subjects in frame and focus
- In Camera tagging for Facebook and YouTube
- Uni-body metal chassis with rubber traction pods



### Coollest Feature









A separate movie shutter button delivers one-touch simplicity for capturing 720p widescreen HD movies with sound. Successive Movie mode even lets you capture several clips in one movie.

# Find The Nikon COOLPIX That Fits Your Life

Nikon's COOLPIX cameras won't let you miss the joy in life, thanks to their fast start-up time, shutter speed, and auto focus. Each COOLPIX offers an ultra-compact and stylish design that will deliver sharp and colorful photo results with its NIKKOR lens. With a wide range of Nikon COOLPIX cameras available, it couldn't be easier to find a camera that can keep up with your photography needs.



*At the heart of the 'image™*

| Product Name                       | Nikon COOLPIX L22   | Nikon COOLPIX L110  | Nikon COOLPIX S3000   | Nikon COOLPIX S4000   | Nikon COOLPIX S6000   | Nikon COOLPIX S8000   | Nikon COOLPIX S80   | Nikon COOLPIX P100  |
|------------------------------------|---|---|---|---|---|---|---|---|
| SKU                                | 9765091   | 9758692   | 9765107   | 9758647   | 9789389   | 9758674   | 1222862   | 9758747   |
|                                    |  |  |            |            |  |  |          |      |
| Additional Colors Available        |   |   | <ul style="list-style-type: none"> <li>9765125</li> <li>9765143</li> <li>9765134</li> </ul> | <ul style="list-style-type: none"> <li>9765161</li> <li>9765152</li> <li>9779807</li> </ul> | <ul style="list-style-type: none"> <li>9789458</li> </ul>                         |   | <ul style="list-style-type: none"> <li>1229231</li> <li>1229125</li> <li>1229268</li> </ul> |   |
| MSRP*                              | \$129.95  | \$279.95  | \$149.95  | \$179.95  | \$199.95  | \$299.95  | \$329.95  | \$399.95  |
| Resolution                         | 12MP  | 12.1MP  | 12MP  | 12MP  | 14.2MP  | 14.2MP  | 14.1MP  | 10.3MP  |
| Zoom                               | 3.6X optical; 4X digital  | 15X optical; 4X digital   | 4X optical; 4X digital  | 4X optical; 4X digital  | 7x optical; 2X digital  | 10X optical; 2X digital   | 5X optical; 4X digital  | 26X optical; 4X digital   |
| LCD Monitor                        | 3 inches  | 3 inches  | 2.7 inches  | 3 inches  | 2.7 inches  | 3 inches  | 3.5 inch OLED Touch screen  | 3-inch tilt and swivel LCD  |
| Internal Memory & Compatible Cards | 19MB internal & SD/SDHC   | 43MB internal & SD/SDHC   | 47MB internal & SD/SDHC   | 45MB internal & SD/SDHC   | 32MB internal & SD/SDHC   | 32MB internal & SD/SDHC   | 79MB & SD/SDHC  | 43MB internal & SD/SDHC   |
| ISO                                | Up to 1600  | Up to 6400  | Up to 3200  | Up to 3200  | Up to 3200  | Up to 3200  | Up to 6400  | Up to 3200  |
| Shooting Modes                     | 6 Scene Auto Selector Modes, 16 Scene Modes, plus Auto                            | 6 Scene Auto Selector Modes, 15 Scene Modes, plus Auto                            | 6 Scene Auto Selector Modes, 16 Scene Modes, plus Auto                                      | 6 Scene Auto Selector Modes, 16 Scene Modes, plus Auto                                      | 6 Scene Auto Selector Modes, 16 Scene Modes, plus Auto                            | 6 Scene Auto Selector Modes, 16 Scene Modes, plus Auto                              | 6 Scene Auto Selector Modes, 17 Scene Modes, plus Auto                                      | 17 Scene Modes; Program, Aperture Priority, Shutter Priority, and Manual Exposure Modes |
| Movie Mode                         | Yes   | Yes (HD)  | Yes   | Yes (HD)  | Yes (HD)  | Yes (HD)  | Yes (HD)  | Yes (HD)  |
| Touch-Panel Control                | No  | No  | No  | Yes   | No  | No  | Yes   | No  |
| Battery Type                       | 2 AA batteries  | 4 AA batteries  | Li-Ion rechargeable battery   | Li-Ion rechargeable battery   | Li-Ion rechargeable battery   | Li-Ion rechargeable battery   | Li-Ion rechargeable battery   | Li-Ion rechargeable battery   |
| Battery Life                       | 240 shots with alkaline, 660 shots with lithium-ion                               | 270 shots with alkaline, 840 shots with lithium-ion                               | 220 shots   | 190 shots   | 210 shots   | 210 shots   | 150 shots   | 250 shots   |

\* Prices listed in this issue are for general reference and may vary from retailer pricing.

FirstGlimpse



## Digital Camera A Touch of Brilliance.



### Nikon COOLPIX S80

MSRP: \$329.95

SKU: 1222862 (red)

1229125 (pink)

1229268 (blue)

1229231 (black)

[www.nikonusa.com](http://www.nikonusa.com)

### Quick Overview

The ultra-slim Nikon COOLPIX S80, with a brilliant OLED touch panel, is packed with features while being simple and fun to use. The large, bright display provides touch control of camera functions, while its wide viewing angle makes it easy to compose, view, and share your images. This stylish camera offers 14.1MP, HD movie, and a 5X wide angle zoom lens that lets you capture landscapes or get in close to the action.

### Perfect For

Photographers who want both high style as well as high tech without compromising quality.

### Outstanding Benefits

- Super-sharp high-res 14.1MP images
- 5X wide angle lens to capture landscapes or close up action
- 3.5-inch Ultra-High Resolution Organic OLED TOUCH Display
- Record 720p HD video with stereo sound
- High ISO (up to 6400) enables sharp images even in low light
- Easy Auto Mode selects most appropriate settings automatically
- Shoot as close as 2.8 inches with built-in macro mode
- Capture steady, sharp images with 5-way VR image stabilization system
- In-camera picture editing



### Coollest Feature

The Nikon S80's 3.5-inch Clear Color Display makes still images and HD movies come alive with rich detail.



NOTEWORTHY

# Accessories & Services

Prices for digital camcorders and cameras continue to fall as their video and picture quality improves, which is especially good news for first-time buyers or those looking to upgrade. Pairing your new camcorder or camera with the right products will bring you better photography results. Here are some must-have accessories you should consider buying to get the most out of your digital imaging device.



## UV FILTER

- Protects digital camcorder and D-SLR lenses from dust, dirt, fingerprints, and scratches
- Helps you get clearer, more detailed results when you're shooting in bright conditions



## ADDITIONAL LENSES & CONVERTER LENSES

- Extra lenses for D-SLRs and converter lenses for digital camcorders can enhance your results by extending your field of view, reducing glare, adding 3D, and more
- Telephoto lenses enable you to zoom in from far away, wide-angle lenses give you the ability to get a full view even if you're close to the subject, and macro lenses will let you achieve up-close, detailed shots of your photo subject



## MEMORY CARDS

- Keep spare memory cards on hand so you can snap away without having to worry about running out of storage space
- Consider having several memory cards with smaller capacities instead of one card with a larger capacity; that way, if something goes wrong with one card, you'll still have a backup
- For your digital camcorder, keep more recording media in your bag than you think you'll need, just in case



## EXTERNAL FLASH

- Light up your subjects from greater distances
- Offers better control of lighting conditions when taking photos by directing the angle of the flash



## SPARE BATTERIES & CHARGERS

- Make sure you're never caught without the power needed to capture the perfect moment
- Whether your camera uses proprietary batteries or AAs, keep at least one fully charged spare or set in your camera bag
- An additional battery charger will give you the flexibility to power up your camera batteries anywhere you're headed, even if you're traveling



## REMOTE SWITCH

- A longer cable lets you snap photos without having to touch the camera, which can also reduce camera shake
- May enable the user to lock the shutter for longer exposure times



## DIGITAL IMAGING SERVICES

Once you've set your sights on the camera or camcorder you want, consider taking advantage of the digital imaging services offered by your local CE retailer. Not only can you protect your investment, but you can also discover photography and videography skills that will make your photos and videos picture-perfect.

- D-SLR or Camcorder Service Plan
- D-SLR Training Course
- Camcorder Training Course



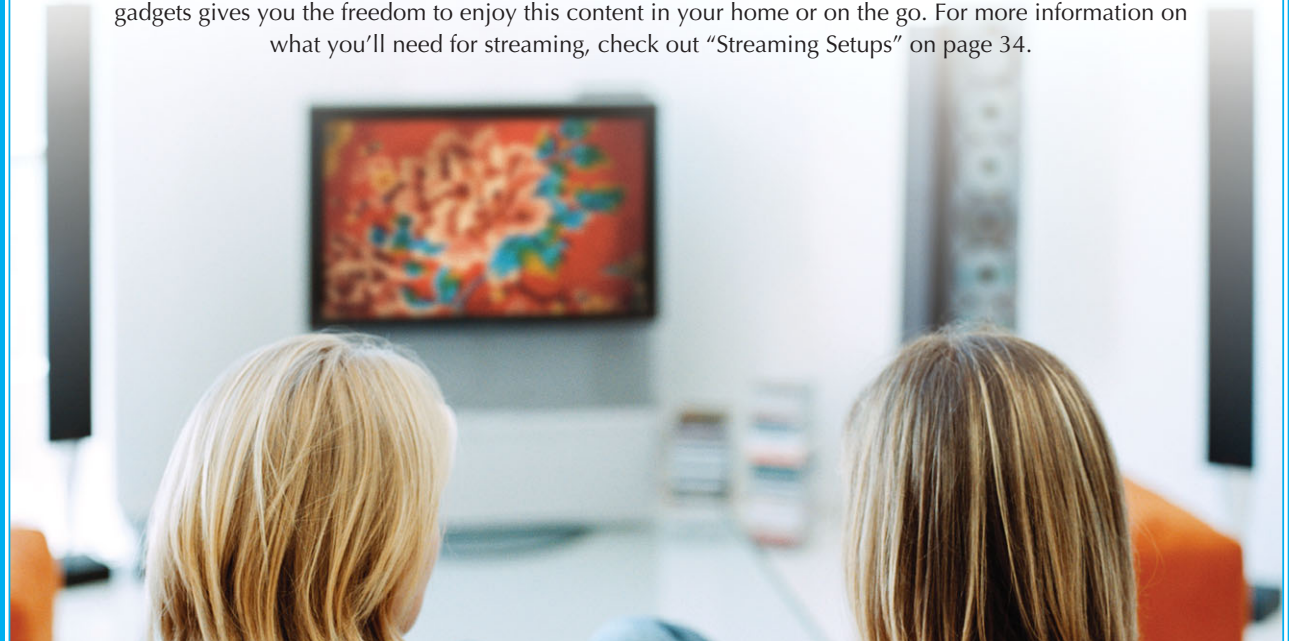
## TRIPOD

- Tripods are an easy way to ensure steady video footage
- Pan while recording video in one smooth motion
- Use a tripod and your camera's timer to get a picture of the entire group without needing someone to man the camera
- Keeps your camera steady while you're shooting close-up or distance shots, which can prevent photo blurring

# Streaming Lifestyles

## Get Content Where You Want It, When You Want It

Access to streaming content is a notable feature found on some Internet-enabled gadgets, and the variety of gadgets gives you the freedom to enjoy this content in your home or on the go. For more information on what you'll need for streaming, check out "Streaming Setups" on page 34.



### HDTVs

An HDTV that supports video streaming can be called an Internet-connectable TV or IPTV. This type of HDTV lets you stream online content to your home theater. For instance, you can access an unlimited database of online movies with a monthly subscription to a streaming service or log on to your photo-sharing sites so you can show off your vacation photos. If your TV is not Internet capable, you can stream content other ways, such as with a game console or set-top box.

**Perfect For:** Families that want to stream media to the big screen.

### Mobile Phones

Thanks to Wi-Fi, 3G, and 4G capabilities, mobile phones can stream media even when you're camping under the stars. On smartphones, you'll primarily access content such as Internet radio and videos via preinstalled or downloadable apps.

**Perfect For:** Anyone who wants instant access to audio and video entertainment.

### Game Consoles

Game consoles are fun toys in and of themselves—add the capability to stream movies, and you've got one entertaining multimedia gadget. After your son or daughter has conquered a game, you can stream one of the exclusive movie or TV series selections from the console. In addition, you can stream live sports seasons, such as Major League Baseball.

**Perfect For:** The gamer who wants to do more than just play games.

### Portable Media Devices

Portable media devices give you tons of media at your fingertips, including news, stock information, and online photo collections. With high-quality, crisp displays for viewing video content, you can enjoy media streaming when you're stuck in a waiting room or making the most of your vacation flight.

**Perfect For:** Those who want the option to stream media any time.

BY JOANNA SAFFORD

# Streaming Setups

## Getting Video From A To B

Streaming is the act of viewing video or listening to music as it reaches your device over a network or the Internet. A stream differs from a download because it leaves no copy of a movie or song on your notebook, HDTV, or other device after playback. This key fact encourages movie studios and record labels to trust streaming services with their content. It also means that you won't have to worry about your device's storage drive filling up with video. Here are a few examples of streaming setups you might be interested in.



**Streaming video to an Internet-connectable HDTV.** It's like a having a TV tuner for the world. Many new HDTVs come with built-in Internet connectivity for accessing YouTube, CinemaNow, and other online streaming sites via built-in widgets. Your TV may have a LAN port for use with your Ethernet or powerline home network, or it may even be able to connect to your Wi-Fi network natively or with an optional adapter.



**Streaming a movie from a service provider to a mobile device.** Tablets, smartphones, and other portable devices make great entertainment platforms when you're out and about. Packing powerful audio and video capabilities, some mobile devices can even stream movies from a movie service, such as Netflix. And thanks to your data plan subscription to your carrier's mobile broadband network, it's a cable-free experience.

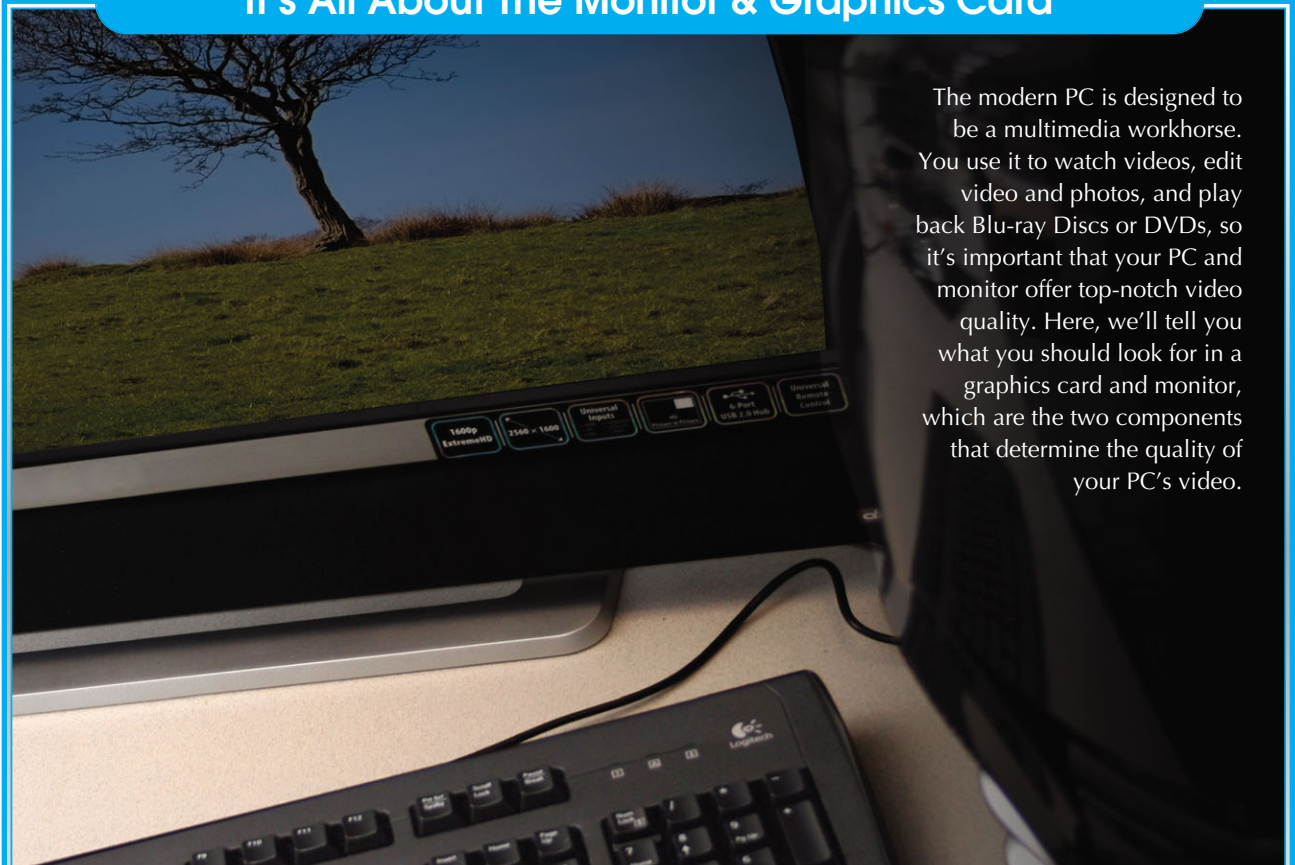


**Streaming home movies from your NAS to your HDTV.** A network-attached storage device gives you access to one or more hard drives on your wired or wireless network. Not only does this make a NAS a whole-house backup solution, but it also means you can use a media extender, a computer, or a game console to stream your video, music, and photos to an attached HDTV.



# Computer Video Quality

## It's All About The Monitor & Graphics Card



The modern PC is designed to be a multimedia workhorse. You use it to watch videos, edit video and photos, and play back Blu-ray Discs or DVDs, so it's important that your PC and monitor offer top-notch video quality. Here, we'll tell you what you should look for in a graphics card and monitor, which are the two components that determine the quality of your PC's video.

### Display Details

The monitor's resolution is the key factor in how detailed images will appear, and the larger the number, the crisper text, images, and video will look on the monitor. You'll find that most monitors 21 inches or above offer a resolution of 1,920 x 1,080, which is the equivalent number of pixels found on a 1080p HDTV.

For picture quality, you'll want to compare the monitor's contrast ratio, which covers how deep of darks and how bright of whites it can display. Keep in mind that you'll want to compare static contrast ratio, such as 1,000:1, rather than the dynamic contrast ratio, such as 10,000:1, because the static is a more true measure of light and dark.

Many new monitors feature both an HDMI and a DVI input. The picture quality from the two connections will be similar, but the HDMI input can also handle audio, so you wouldn't need to run a second cable to deliver audio to a monitor with speakers.

### Graphics Card

Any recent graphics card should be able to support the 1,920x1,080 resolution found on today's large monitors.

Graphics cards with Nvidia's CUDA or ATI's Stream are designed to work with popular video- and photo-editing applications to quicken your PC's ability to render edits to your images and HD video.

New models that are compatible with DirectX 11 allow you to play video games at the highest quality.

# Video On The Go

## Entertainment At Your Fingertips

With all of the entertainment possibilities today's mobile devices deliver, you'll never be bored again. Notebooks, mobile phones, media tablets, and portable televisions all let you enjoy movies, TV shows, and other videos when you're far from the comforts of home.



### Notebooks

Nearly all notebooks are equipped with some kind of Web connection that lets you stream or download videos from the Web. Or, if you would rather watch movies on disc, many models offer an optical drive that works with standard DVDs, and a handful of notebooks offer Blu-ray Disc technology and advanced video cards for viewing high-definition movies.

**Perfect For:** Those who want to watch movies from a variety of sources.

### Mobile Phones

You might be able to subscribe to mobile TV services or a video-on-demand service for your mobile phone. After you download the corresponding mobile applications, these services deliver content using your phone's data network or a Wi-Fi connection, depending on coverage. And not only can you view videos on your phone, but many phones with built-in cameras let you record video, as well.

**Perfect For:** The frequent traveler who wants a pocket-sized video device.

### Internet Media Tablets

Internet media tablets are equipped with a Wi-Fi connection that lets you stream or download Web videos and other content. Some media tablets also support mobile applications that let you watch movies and TV shows. Additionally, many media tablets include built-in memory card slots so you can view home videos stored on memory cards.

**Perfect For:** Those who want a portable device with several viewing options and a larger screen.

### Portable Televisions

Portable televisions offer TV tuners or 3G connections so you can watch live television wherever services are available. Note that some portable televisions require a subscription. With a wide variety of stations, you can tune in anytime to your favorite sports, news, or comedy programs. There are also stations that can keep your kids entertained on road trips.

**Perfect For:** Families and travelers that don't want to miss out on TV shows.

# Recording Home Videos

## Beyond The Camcorder



The camcorder has been a staple of home movie-making for years, and many people shoot hours and hours of video on digital camcorders every year. As handy and powerful as digital camcorders are, however, they're not the only way to capture home videos.

### Digital Cameras

Many point-and-shoot cameras and D-SLRs available today also shoot video. Typically, the video quality isn't as high as what you'd find on a digital camcorder, but you can still get HD video in many cases.

One of the great benefits of using your digital camera to capture video is that they're typically smaller than digital camcorders, and depending on the size of the memory card in your camera, you may be able to record hours of footage.

Additionally, you're more likely to already have a camera out for snapping photos, so quickly switching to a video mode lets you capture candid moments on video.

### Pocket Camcorders

If size is an issue, a pocket camcorder can be an excellent tool to record home video. Pocket camcorders tend to be inexpensive and tiny, making them perfect to carry around in a pocket just about anywhere, yet they offer resolutions up to 1080p.

Pocket camcorders are designed to make sharing video simple, whether that's posting clips on YouTube or Flickr or uploading your footage to a computer with easy-to-use outputs. Some even have built-in USB outputs.

Letting a less-than-careful youngster explore her creative side with a pocket camcorder is a great way to capture home video that you would otherwise never get, as well.

### Digital Camcorders

Of course, for high-quality video and loads of onboard features, digital camcorders are hard to beat. They range widely in price and features, but you can find one with features to fit any budget and lifestyle.

Digital camcorders can be perfect for documenting just about anything and everything your family does, from crisp audio and video of Grandma recounting old family stories to full-length soccer games.



# Edit Home Videos

Get Professional-Looking Results With Ease

Years ago, editing film required some expertise, special equipment, and a tremendous amount of time and patience. But with the advent of digital video, making mini-masterpieces of your home movies is easier than ever. All you need is a digital camcorder, a computer, and some software.



## Titles

Any film needs to have some titles. In most video-editing programs, you can enter text into a box and decide what action it will perform (such as side-scrolling or dissolving in and out), how long the text will last on the screen, and even the font and color of the text. Whether you're adding credits at the beginning and end of your movie or inserting subtitles, it's easy to do.

For an extra polish to your work, many video-editing tools let you create interactive DVD and Blu-ray Disc menus (often from built-in templates), just like any Hollywood film does these days.

## Transitions

Most video-editing software has several transitions, such as fade, wipe, cut, and more, that you can choose from a menu or list and drop into your project between video clips. The inserted transition will automatically perform its intended operation to the clips on either side of it—a simple way to add a level of professionalism to your home movies.

## Cutting

Even the most adept videographers need to do some trimming to the video they shoot. Perhaps one scene went too long or someone walked into the shot right at the end of a section. With most video-editing programs, snipping clips and joining scenes together is simple. Think of a video clip as a digital "ribbon" of sorts—with a click, you can cut it here or there and then click and drag pieces together with ease.

## Audio

When working with video, don't forget about the audio track. After you've narrowed your video down to the footage you need, most video-editing applications allow you to tweak your video and audio tracks separately. Additionally, you can add a musical soundtrack by importing your own tunes or selecting something from a list of preset songs.



# The Latest In Home-Theater Technology

## HD & 3D Video Terminology & Concepts

Two new technologies are coming together in one fun package: HD and 3D video work together to give you some of today's most exciting information and entertainment options. We'll highlight some important information about both so you can make informed decisions about how to get the most out of them.

### Progressive vs. Interlaced Scanning

You'll find HDTVs with resolutions of 720p, 1080i, and 1080p. The letters "p" and "i" refer to the scanning technique used: An electron beam scans each frame of an image (from top to bottom) as it appears on your television. A TV using an interlaced resolution first scans all the odd-numbered lines, then the even ones; the progressive method quickly scans all the lines at once, resulting in a sharper image. Many HDTVs use progressive scan these days, so you may discover that the main difference comes down to a 720-line resolution vs. a 1080-line resolution. Because a 1080-line frame contains more than twice as many pixels as a 720-line frame, the 1080 image will be sharper, assuming that all else is equal.

### Add A BD Player To Your HDTV Setup

Correctly configured, your HDTV can display crisp, vibrant images, but the original image sent to the TV must be sharp to begin with. A BD (Blu-ray Disc) player is a great way to generate a great image: BD images are incredibly sharp and well-defined, with a potential resolution as high as 1,920 x 1,080. And even standard DVDs will usually look better when played on a BD player, because the BD player will "upconvert" the standard image, although not to true HD quality.

### HDMI Gets The HD Image There

Efficiently sending the image from the BD player to the TV requires transmitting the video (and audio) data in a way that preserves its original quality, and an HDMI cable is the best way to do that. HDMI supports uncompressed video and audio in one cable and delivers it with a minimum of signal loss, even over fairly long cable runs. If an HDMI cable is not used, then the resulting image will not be true HD.

### Crank Your HDTV Up A Notch With 3D TV

Of course, you need a 3D-ready TV to watch 3D television, but you should also use a home-theater receiver that features HDMI 3D pass-through, if possible; this allows all of your components to handle the 3D signals without data loss. Without it, image quality could suffer. You'll also need 3D eyewear; this may be included with your new TV, but can also be purchased separately.

# Projectors

## How They Differ From HDTVs

An HDTV can be a wonderful addition to your entertainment room, but have you considered the other cinematic options for your home? Projectors might be an unfamiliar alternative, but there's no reason to rule them out of your purchasing decision. We'll explain the differences between both types of home-theater video devices, so you can be informed about every feature.



### Image Quality

Projectors create a sharp and saturated image using DLP (Digital Light Processing) or D-ILA (Direct-Drive Image Light Amplification) technology.

A projector can support the same HD resolutions as a standard HDTV, such as 1080i, 1080p, and 720p.

### Screen Size

A projector's viewable screen size (measured diagonally) is adjustable up to 300 inches, on average, so you can accommodate both large and small groups. You can also move the projector closer to or farther away from the screen to produce proportional images.

HDTVs are available in a variety of sizes (up to 73 inches) and can be mounted on the wall. Some models feature an ultra-slim, space-saving design.

### Accessories & Portability

There are projector models that are equipped with remote controls to select sources, change volume, etc., just like HDTVs.

Projectors are more portable than HDTVs. Ultraportable projectors are small (between 3 and 5 pounds) and can be used in a living room setting or in the office for slideshow presentations.

### Peripheral Compatibility

A projector's HDMI, audio, and S-Video inputs make it possible to connect disc players, stereo equipment, and camcorders to the device; HDTVs generally have the same input capabilities.

Specifically, Epson's Movie-Mate 60 projector (\$699.99; [www.epson.com](http://www.epson.com)) features a built-in DVD and music player and can provide a widescreen display for viewing sporting events, home movies, or video games, wherever you take it.



# Video In Your Vehicle

## Experience Backseat Bliss

When the game of slug bug turns violent and boredom sets in during the family vacation, trips to the supermarket, and other extended car rides, even Clark Griswold-grade optimism can't pull a U-turn on that situation. With a road-worthy DVD player, however, you can stop threatening to "turn this car around" and rediscover the fun in traveling.



### Portable DVD Players

Portable DVD players come in clamshell or slot-loading tablet designs that include a widescreen LCD between 7 and 10 inches. These devices include a rechargeable battery and car adapters for those long hauls. Units with multiple audio outputs or a headphone splitter let you connect two or more sets of headphones at once.

**Perfect For:** Those looking to spend the least and watch DVDs wherever they go.

### In-Dash DVD Players

In-dash DVD players and monitors offer a completely integrated experience. The screens tend to be limited to 7 inches, but these units give you all the benefits of an in-dash radio and CD player, in addition to DVD playback. They also score by playing the audio for the DVDs over the car sound system. Another common add-on includes navigation capabilities.

**Perfect For:** Sporadic travelers and those who want extras such as navigation, CD, and radio functions.

### In-Headrest DVD Players

In-headrest DVD players and monitors are essentially a part of the car. These models commonly have touch-screen menus and tilting screens. A major benefit of headrest-based DVD players is that they enable each viewer to watch the program of his or her choice.

**Perfect For:** Heavy travelers.

### Overhead DVD Players

Overhead DVD players and monitors are permanent fixtures of the vehicle and can offer individual or communal viewing experiences depending on where they are installed. Screen sizes here can be larger than 7 inches, and they conveniently swivel as needed and fold up when not in use.

**Perfect For:** Those who spend a lot of time in the car.

## HOW TO BUY A

# Wireless Router

## Notes On Home Networking



Establishing a wireless home network lets you easily browse the Internet with a Wi-Fi device from almost anywhere in your home. And shopping for a wireless router can be just as easy once you understand how a particular model matches your needs. As a general rule, pick a router that matches your network speed and range requirements and then consider special features and privacy standards.

**Wireless standards.** The newest wireless standard for routers is 802.11n, which is generally backward-compatible with older standards such as 802.11b and 802.11g. Wireless-N supports up to 300Mbps peak throughput, though this can vary. The faster the standard, the higher the quality you'll get when streaming multimedia, such as music, movies, and gaming. Generally, an 802.11n wireless router's range can reach to around 300 feet.

The faster the standard, the higher the quality you'll get when streaming multimedia . . .

**Extra features.** If you want to be able to wirelessly share files on the network, purchase a router that includes a built-in USB port. To share files, all you'll need to do is connect a USB storage device to the router. Some routers also feature unique networking apps that might let you transfer music to a playback device, print wirelessly (with a compatible printer), or automatically download media even when your PC is turned off.

If you want to be able to wirelessly share files on the network, purchase a router that includes a built-in USB port.

**Security features.** Safeguarding your wireless connection is critical to ensuring that people don't use your network without your permission. The two most common security protocols for encrypting your network's data are WEP (Wired Equivalent Privacy) and WPA (Wi-Fi Protected Access), which encrypt your network's data to prevent cybercriminals from hijacking your home network or accessing account logins.

Safeguarding your wireless connection is critical to ensuring that people don't use your network without your permission.

# Network Options

## Wi-Fi, Powerline, Or Wired

Interested in creating a home network to share files, Web access, and a printer among your computers and other Internet-capable devices? You've probably heard a lot about wireless networks, but there are a couple other ways you can connect your electronics to a home network. Note that the three connection types we talk about below—Wi-Fi, powerline, and wired—can be used on the same home network, so you can use all three if you want.



### Wi-Fi

For a Wi-Fi network, you'll need a wireless router. Each of the devices you want to connect to the network must either have built-in Wi-Fi connectivity or the ability to use a wireless adapter. Accessing the wireless signal is as simple as searching for the Wi-Fi network, logging on, and entering the security credentials you created.

**Perfect For:** Laptops and other portable devices that you use in multiple locations in your house. Because you won't need to run cables from your router to network components, you won't blemish your décor or run into cable obstacles.



### Powerline

A powerline network kit is capable of using your home's electrical power lines to transfer network data, and it includes two adapters that plug into your wall outlets. Ethernet cable is run from the adapters to your network devices. The result is the reliability of a wired connection without the hassle of routing Ethernet cable through floors and walls.

**Perfect For:** Delivering network access to rooms where Wi-Fi signals are poor or Ethernet cable can't easily reach. You may also be able to achieve a cable-free look if your wall outlets are already hidden behind the device, such as your HDTV or entertainment center.



### Wired

With a wired network, you'll run Ethernet cables from the router to your network devices. Depending on the distances and obstacles between your devices, setup could be extremely easy or take some effort to accomplish. A wired network offers faster data transfer rates and a network connection that's more reliable than Wi-Fi.

**Perfect For:** PCs and other electronics, such as an Internet-connected Blu-ray Disc player, that require a speedy, reliable connection for video streaming, online gaming, and file sharing over the network.





# Introducing Trend Micro™ Titanium™

## Trio Of Apps Provides Cloud-Based Protection

In the seemingly never-ending battle to keep your computer, your data, and your identification secure from hackers, spammers, and other online dangers, publishers of security software have come up with innovative, imaginative ways to ensure your safety. Trend Micro ([trendmicro.com](http://trendmicro.com)) is a leader in that effort, offering three effective tools that can help keep you safe without slowing you down.

### Strong Antivirus Protection: Trend Micro™ Titanium™ Antivirus+ 2011 & Trend Smart Surfing For Mac

Trend Micro's Titanium Antivirus+ 2011 (\$39.95 for one PC or Mac) uses real-time updates to keep your computer protected from viruses, spyware, and malicious downloads. It uses less than half the disk space to stop viruses and spyware before they reach your computer, so your system is safer and faster. Included in the bundle is Trend Smart Surfing For Mac, which gives you the freedom to surf the Web and stay safe from attacks on your identity and sensitive information.

### Advanced Protection & Performance: Trend Micro™ Titanium™ Internet Security 2011

Trend Micro's Titanium Internet Security 2011 (\$69.95 for three PCs) includes all of the features of Titanium Antivirus+, but adds the ability to block email and image spam and includes a firewall optimizer so you can safely surf the Web. Titanium Internet Security takes a uniquely proactive approach to keeping you and your system safe, featuring easy-to-use tools that offer enhanced protection. These include easily customizable parental controls that will help keep kids safe online and unique data theft prevention tools to prevent hackers and spyware from stealing sensitive information, such as credit card numbers and passwords.

### Complete Data Protection: Trend Micro™ Titanium™ Maximum Security 2011

For the ultimate in protection, consider Titanium Maximum Security 2011 (\$79.95 for three PCs). It includes all of the features of Titanium Antivirus+ 2011 and Titanium Internet Security 2011, including cloud-based, proactive threat protection that uses Trend Micro's servers and offsite processing power to keep you safe without slowing your computer down. In addition, Trend Micro's Maximum Security can optimize your system with System Tuner, remotely lock files if your computer is stolen, destroy sensitive files with Secure Erase, and warn you about malicious links you may receive through email or instant messaging.

If you want a safe place to store sensitive data, such as irreplaceable documents, photos, and music, Titanium Maximum Security also provides 10GB of free, secure online backup with Sync and Sharing features. This will let you back up and access valuable data on Trend Micro's Web servers at any time.

## Choose Protection That's Right For You

Trend Micro's trio of tools offers advanced security features while using the company's Web servers to do much of the leg-work. The result is protection that doesn't slow your system down.

### Titanium Antivirus+

MSRP: \$39.95  
(one license)  
SKU: 1309078

Best Buy  
Exclusive

### Titanium Internet Security

MSRP: \$69.95  
(three licenses)  
SKU: 1265939

### Titanium Maximum Security

MSRP: \$79.95  
(three licenses)  
SKU: 1266091

|  |   |   |   |
|--|---|---|---|
| Real-time updates to safeguard you from current and future online threats                | ✓ | ✓ | ✓ |
| Low resource consumption, so your system runs faster                                     | ✓ | ✓ | ✓ |
| Easy to use with simple menus and graphical reports                                      | ✓ | ✓ | ✓ |
| Includes Trend Smart Surfing for Mac, see store for details                              | ✓ |   |   |
| Effective spam blocking tools  |   | ✓ | ✓ |
| Customizable parental controls   |   | ✓ | ✓ |
| Secure online shopping and banking with transaction and data theft prevention            |   | ✓ | ✓ |
| Secure Erase shreds sensitive files  |   |   | ✓ |
| System Tuner cleans up temporary files, registries, and start-up manager for a faster PC |   |   | ✓ |
| Remotely secure confidential files in the event of theft                                 |   |   | ✓ |
| 10GB secure online backup with Sync and Sharing features                                 |   |   | ✓ |

# Microsoft LifeCam Studio

## Your Family & Friends Will Thank You

Sometimes, the ones we love most live the farthest away, and a phone call can't always cure the "wish you were here" blues. The remedy? Microsoft's LifeCam Studio (\$99.99; [www.microsoft.com](http://www.microsoft.com)), a 1080p HD sensor\* Web cam that records video so crystal clear your loved ones just may seem like they're in the same room.

### Bigger & Better

Recording video soaked in superior clarity, color, brightness, and detail is only a USB port away with LifeCam Studio's full 1080p HD Widescreen sensor\*. With Microsoft's bundled software, you can record stellar 720p HD video. Both resolutions capture 16:9 widescreen video possessing a cinematic feel and showcasing more of a scene's details.



### Intelligent By Design

The LifeCam Studio's construction oozes quality through features such as a:

- High-precision, glass-element, auto-focusing lens protected in a barrel-shaped frame
- Flexible mount suitable for both notebook PCs and PC monitors
- High-fidelity microphone that records audio rich in detail and clarity

### Windows Live-Ready

Beyond instantly launching Windows Live Messenger video calls via a built-in Windows Live Call button, the LifeCam Studio is optimized to let you:

- Create widescreen movie projects in Windows Live Movie Maker
- Upload video to social networking sites
- Snap still images you can edit, tag, and share in Windows Live Photo Gallery
- Spice up video with special effects accessible in Windows Live Messenger

### Clear & True

Some Web cams need ideal lighting to output acceptable video. The LifeCam Studio, however, uses Microsoft's TrueColor and ClearFrame technologies to automatically:

- Adjust exposure to ensure video is bright, accurate, and engaging—even in poor light
- Analyze the given surroundings to optimize video settings accordingly
- Reduce graininess, blurring, and noise no matter the resolution

\*Popular video call services do not support 1080p resolution. 1080p HD recording requires commercial video software (not included), Intel Quad Core 3.0 GHz (or higher) or compatible, 4 GB RAM. Included software supports 720p HD recording. HD display recommended.

**FirstGlimpse**

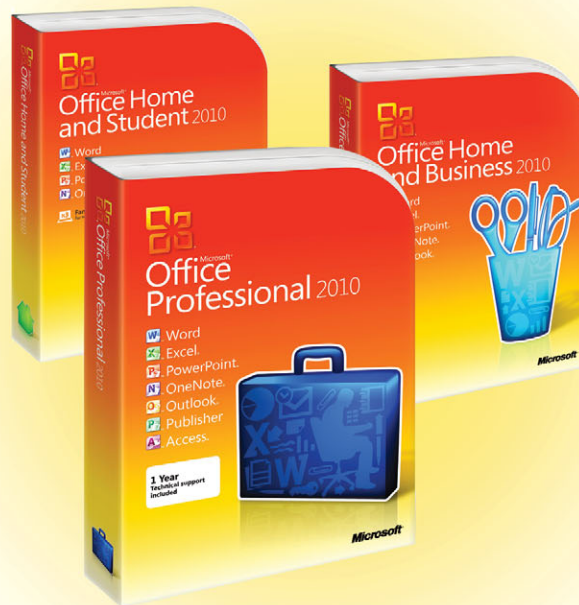




# Don't Forget About Office 2010

## The Essential Productivity Tool

A recent study from comScore found that Microsoft Office is used by more than 750 million people worldwide, making it the de facto productivity suite around. To make sure your documents, spreadsheets, and presentations are up to the standards everyone else is using, you'll want to invest in Microsoft Office (price varies by version; [www.microsoft.com](http://www.microsoft.com)). The 2010 version includes new features that help you share documents and spreadsheets with others; manage financial data with analysis tools and charts; and collaborate with group members and colleagues through Microsoft Word, PowerPoint, and OneNote.



### The Key Step

Microsoft Office isn't included with the Windows operating system, but many PC vendors opt to preload a trial version on new computers. This trial version can be changed to a full version by purchasing a Product Key Card, which features an Office 2010 key code that you activate to get the full version. If Microsoft Office wasn't preinstalled on your computer, you can buy a DVD copy that includes a key code that's usable on up to two PCs.

### Who Should Invest?

If you need to create professional-looking documents—whether it be for a presentation, a school project, or a sales meeting—Microsoft Office has you covered. For example, students can use PowerPoint to create informative slideshows that can leave a good impression on teachers. And nearly all the utilities found in Microsoft Office are considered a must-have for people in business and those who work from home.

### Which Version Should I Buy?

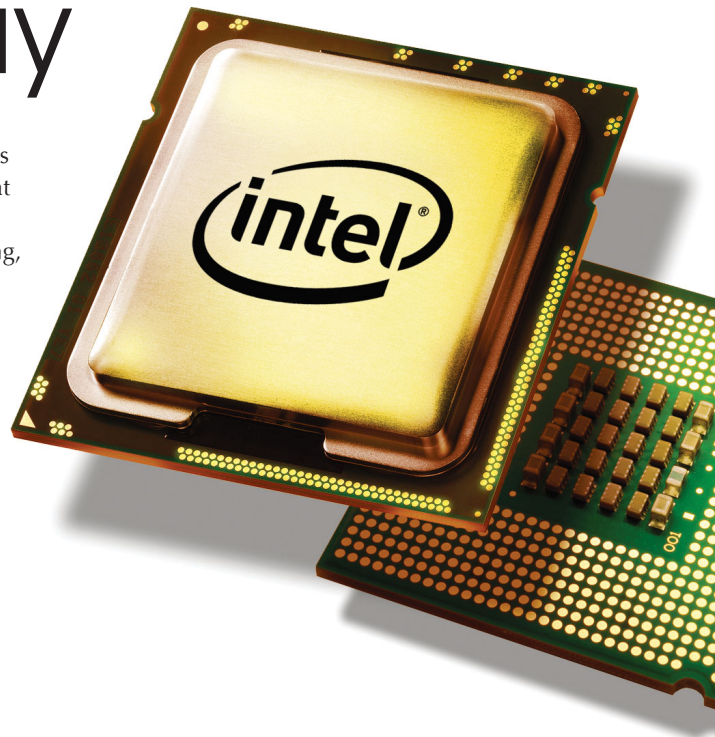
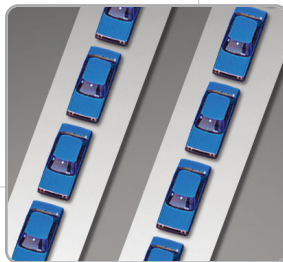
The Home and Student edition includes Word, Excel, PowerPoint, and OneNote, while the Home and Business edition adds Microsoft Outlook. If you need to manage email or a calendar full of meetings, you'll want the Home And Business edition. Office Professional also includes Microsoft Publisher, a program for creating high-quality marketing materials, and Microsoft Access, which helps you manage databases.

# The Intel Core Processor Superhighway

The Intel Core i3, i5, and i7 processors let you do more, faster. Intel's ([www.intel.com](http://www.intel.com)) latest processors feature two smart technologies that accelerate the things you do, such as enjoying HD video and other media, Web streaming, gaming, photo and video editing, multitasking, and more, like never before.

## Avoid The Traffic Jam

Imagine the tasks you perform on your PC as cars on a highway. An underpowered computer is no different from being stuck in bumper-to-bumper traffic. To let you do the things you want to do with your PC without experiencing a slowdown, Intel's Core i3, i5, and i7 processors can efficiently get the job done.

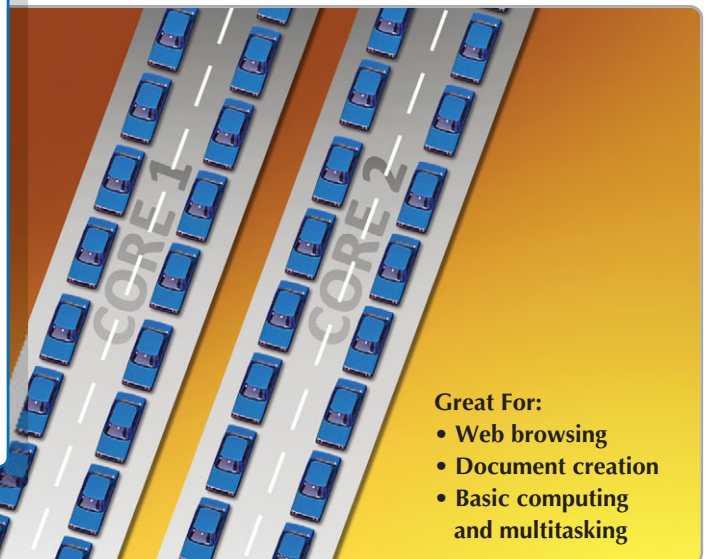


## Hyper-Threading

### More Lanes = Less Waiting

Hyper-Threading gives Intel Core processor-equipped systems the ability to handle multiple processes at once. Instead of having to process one thread of data at a time, Intel Core processors can handle multiple threads at once, effectively turning your PC into a computing superhighway. This ensures the PC works at your pace, not the other way around. The Intel Core i3 and i5 processors all support Intel's Hyper-Threading technology for 4-way processing and excellent multitasking performance. The Intel Core i7 processors support 8-way processing for extreme multitasking scenarios.

Intel Core i3  
4-way with *Hyper-Threading*



#### Great For:

- Web browsing
- Document creation
- Basic computing and multitasking

## Intel Core i5

4-way with *Hyper-Threading*  
and *Turbo Boost*



Great For:

- Audio, video, and photo editing
- Light gaming and multimedia
- Advanced computing and multitasking

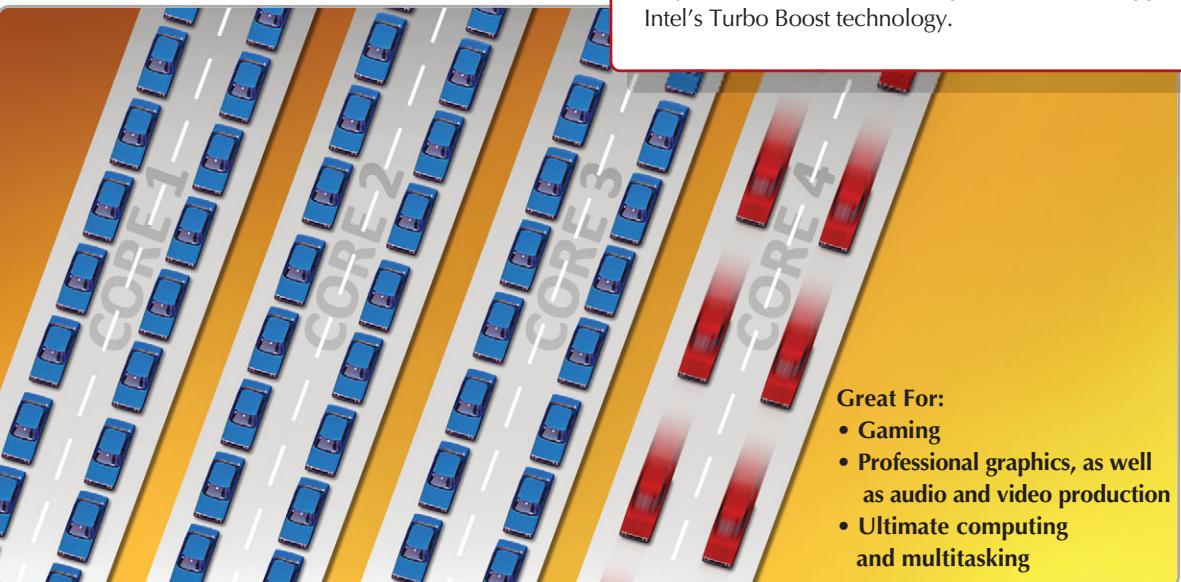
### ***Turbo Boost***

#### Computing In The Fast Lane

Turbo Boost is one of the smartest features you'll find on Intel Core processors. It detects when the software you're using isn't taking full advantage of the processor's multi-way computing capabilities and throttles the processor speed to complete the task as quickly as possible. This means, no matter what you do with your PC, the Intel Core processors with Turbo Boost can perform noticeably faster. The Core i5 and i7 processors both support Intel's Turbo Boost technology.

## Intel Core i7

8-way with *Hyper-Threading*  
and *Turbo Boost*



Great For:

- Gaming
- Professional graphics, as well as audio and video production
- Ultimate computing and multitasking



# Computing Power & Fun For The Whole Family

## Lenovo's IdeaCentre™ K300 Desktop Computer

Your family needs a computer powerful enough to handle the demands of both work *and* play. Whether you're viewing photos or video, listening to music, or surfing the Web, you need a system that can do the job for the whole family at an affordable price. The IdeaCentre K300 from Lenovo®, which created the award-winning ThinkPad® business notebook, offers enough power to run the latest and greatest PC multimedia apps, but also provides value that will be appreciated by families. And, the K300 comes in a sleek desktop package that looks good in any home.



### Power When Needed

Lenovo's K300 is all about delivering power, speed, and value. The system features:

- Intel® Pentium® E5700 dual-core processor
- 4GB of DDR3 memory
- Integrated Intel® GMA X4500 graphics for crisp, quick video
- Support for 2.1- or 5.1-channel digital surround sound
- A 640GB hard drive (7,200 RPM) for plenty of storage

### Value To Spare

Whether your family members intend to work or play (or both), the K300 offers plenty of bang for your buck. Other features include:

- Windows® 7 Home Premium 64-bit
- DVD/RW optical drive
- Ethernet port
- Matching wired keyboard and mouse
- Eight USB ports (two on front panel, six on back)
- A built-in 15-in-1 memory card reader
- A tool-free chassis for easy expansion to add more storage for videos, photos, and music

Microsoft Office 2010 Starter Edition, Lenovo Rescue System for creating recovery discs in case you ever need to reinstall your system, and a trial version of McAfee Security Center 9 for protecting yourself against viruses and malware are all included.

## ESSENTIAL THINGS TO KNOW

# Security Software

## Q Why do I need security software?

A Security software can keep your computer safe from Internet-borne threats and viruses. It can keep your computer running properly and clean from malware and also prevent identity theft.

## Q What is malware?

A Malware is malicious software that is designed to access a computer without a user's consent. Some common forms of malware are computer viruses and worms, spyware, adware, and Trojan horses.

## Q What are the different types of security software available?

A Antivirus software will seek out malware and alert you to malicious files that are stored on your PC and could potentially harm it. Antispyware software scans your computer for spyware to make sure no one is monitoring it and potentially stealing your private information. These are often sold together but can also be purchased separately.

## Q What kind of threats can security software prevent?

A Security software works to prevent the effects of malware, such as computer hijacking, identity theft, and computer viruses. Some versions also check file downloads to be sure they don't include programs that can harm your computer and the legitimacy of Web sites.

## Q What is the difference between software I can buy and software I can use for free?

A While free security software offers some protection for your computer, it won't be as comprehensive as what's offered by software you purchase. Also, all purchased software offers automatic updates to help you combat the most recent threats; this is not always the case with free versions.

## Q What features should I look for in a software suite?

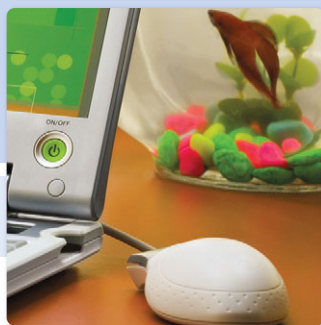
A Make sure you invest in software that includes automatic protection, updating, and scanning features against threats. If you plan to install the program on more than one computer, look for a suite that includes more than one software license.

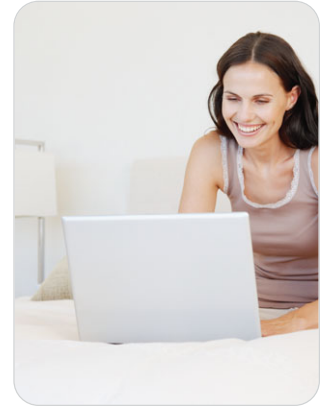
## Q Is there software available that can keep me safe on the Internet?

A An Internet security suite will include extra features to keep you safe while you surf the Web, such as a firewall and identity theft protection. Some versions will also block suspicious emails and instant messages and check the legitimacy of Wi-Fi hotspots before letting you connect.

## Q What is a firewall?

A Some security suites include a firewall feature, which is another layer of protection against Internet threats. The firewall forms a barrier between your home network and the Internet by monitoring all incoming activity and blocking hackers or malware.





# Computing Glossary

Shopping for a computer can be intimidating, especially with all of the complex terminology. Here, we'll explain some common computer jargon.

**Bluetooth**—A short-range wireless standard that connects devices such as computers, printers, PDAs, and digital cameras so they can be used together without being connected physically with a cord.

**broadband**—Network connections that transmit high-speed Internet access. Broadband speed varies depending on the provider. Cable companies offer speeds of around 8 to 11Mbps, whereas phone companies offer DSL (Digital Subscriber Line), which supports speeds of 3 to 5Mbps.

**CRT (cathode-ray tube)**—An old analog display technology for TVs and computer monitors. It features an electron gun illuminating phosphor dots that line the inside of a glass tube. When the phosphors are lit, they display on-screen images. CRTs consume a great deal of power and are heavy and bulky. Many CRTs support digital signals, though these degrade when converted to analog.

**dual-core processor**—This integrated circuit, which controls the computer,

features two processors, each with its own cache, on a single die or chassis. In a dual-core configuration, the operating system has two processors to handle instructions, speeding up the computer and its ability to multitask.

**Ethernet**—A widely used LAN protocol in which computers and networks are physically linked with a cord.

**firewall**—Hardware or software that limits access by a network or another outside source to your computer; it also may limit your computer's access to the network. These security measures are designed to protect your computer from outsiders who'd like to exploit it in some way. By the same token, firewalls may prevent infected files on your computer from accessing the larger network and spreading the problem to other users.

**LAN (local-area network)**—A group of computers that are physically connected by wires so they can communicate with one another and share information.

**LCD (liquid-crystal display)**—This technology sandwiches liquid crystals between thin sheets of glass. The crystals twist and untwist to allow and block light from a backlight, forming the images you see. LCDs are thinner, lighter, and consume less power than CRTs. Initially used mostly in notebook PCs,

you'll now find LCD TVs and computer monitors, and they are also in digital cameras, cell phones, portable DVD players, and other devices.

**office suite**—Productivity software, such as Microsoft Office, StarOffice, and OpenOffice, that often includes word processing, spreadsheet, presentation, database, and financial tools.

**operating system**—The software, such as Windows Vista, Windows 7, or Mac OS X, that controls a computer and its peripherals and serves as the primary interface for the users.

**processor**—Also known as a microprocessor or the CPU, this integrated circuit controls the computer.









**RAM (random-access memory)**—A type of memory that's read from and written to by the CPU and hardware.

**upgradeable**—This term refers to the ability to add or swap out hardware to boost a computer's performance, increase its speed, or replace a defective or obsolete device or component. For instance, you may add more memory, replace an old CRT with a widescreen LCD, or swap out an older video card for a newer one that features an ATSC TV tuner so you can watch digital TV on your computer. Look for a computer with expansion slots or empty bays.



# Which Notebook Computer Is Best For You?









A notebook computer is a pretty big purchase for most people, and it's usually a bit overwhelming, too. This chart compares the features and specs from several different types of notebook models.

|   |  | Operating system   | Processor  | Hard drive size;<br>RAM  | Screen size                                       | Dimensions;<br>Weight                              | Optical drives;<br>Media card reader  |
|---|--|--|--|--|---|--|---|
|   | What It Means  | The software (usually Windows or Mac OS X) that controls your computer | Chip that controls the computer (typically, a bigger number is better) | How much data the computer can hold; Memory that's read and written to | The diagonal measurement of the notebook's screen | Height x width x depth; How much the laptop weighs | Drives that can read and write discs; Slots that read media cards without a separate peripheral |
|    | <b>Lenovo G550 2958-9PU</b><br>MSRP: \$479.99*<br>SKU 1032449          | Windows 7 Home Premium   | 2.3GHz Intel Pentium   | 250GB; 4GB   | 15.6 inches                                       | 1.4x15x9.6 inches; 6 pounds                        | DVD±RW/CD-RW; No  |
|    | <b>Samsung R480-11</b><br>MSRP: \$599.99*<br>SKU 1150125               | Windows 7 Home Premium   | 2.2GHz Intel Pentium   | 320GB; 4GB   | 14 inches   | 1.5x13.5x9.4 inches; 5.6 pounds                    | Double-layer DVD±RW/Blu-ray Disc/CD-RW; Yes   |
|  | <b>Toshiba Satellite L645D-S4033</b><br>MSRP: \$659.99*<br>SKU 1201235 | Windows 7 Home Premium   | 2.3GHz AMD Turion II   | 250GB; 4GB   | 14 inches   | 1.5x13.3x9.1 inches; 5 pounds                      | Double-layer DVD±RW/CD-RW; Yes  |
|  | <b>Dell S1558-5691MSL</b><br>MSRP: \$799.99*<br>SKU 9947084            | Windows 7 Home Premium   | 2.26GHz Intel Core i3  | 500GB; 4GB   | 15.6 inches                                       | 1x14.6x10 inches; 5.5 pounds                       | Double-layer DVD±RW/CD-RW; Yes  |
|  | <b>Apple MacBook MC516LL/A</b><br>MSRP: \$999*<br>SKU 9944833          | Mac OS X 10.6 Snow Leopard   | 2.4GHz Intel Core 2 Duo  | 250GB; 2GB   | 13.3 inches                                       | 1.1x13x9.1 inches; 4.7 pounds                      | Double-layer DVD±RW/CD-RW; No   |
|  | <b>Sony VAIO VPCF12AFM/H</b><br>MSRP: \$999.99*<br>SKU 9987925         | Windows 7 Home Premium   | 2.26GHz Intel Core i3  | 500GB; 4GB   | 16.4 inches                                       | 1.2x15.3x10.4 inches; 6.4 pounds                   | Double-layer DVD±RW/CD-RW; Yes  |
|  | <b>Sony VAIO VPCS111FM/S</b><br>MSRP: \$1,049.99*<br>SKU 9701289       | Windows 7 Home Premium   | 2.2GHz Intel Core i5   | 500GB; 4GB   | 13.3 inches                                       | 1.08 to 1.24x 12.95x9 inches; 4.4 pounds           | Double-layer DVD±RW/BD/CD-RW; Yes   |
|  | <b>Alienware M15x</b><br>MSRP: \$1,999*<br>SKU 9722255                 | Windows 7 Home Premium   | 1.6GHz Intel Core i7   | 320GB; 4GB   | 15.6 inches                                       | 1.9x14.9x 12.2 inches; 9 pounds                    | Double-layer DVD±RW/CD-RW; Yes  |

\*Prices listed in this issue are for general reference and may vary from retailer pricing.

## Which Netbook Is Best For You?

Netbooks don't offer the full capabilities that notebooks do, but these compact devices are ideal for those who need to stay connected while on the go. To find the netbook that fits your mobility needs, here's a comparison of the latest models.

|   |   | Operating system   | Processor  | Hard drive size;<br>RAM  | Graphics card  | Memory<br>card reader   | Ports   |
|---|---|--|--|--|--|---|---|
| What It Means   |   | The software (usually Windows XP or 7) that controls your PC | Chip that controls the computer (typically, a bigger number is better) | How much data the computer can hold; Memory that's read and written to | Controls the quality of the video and images you see on-screen | Slots that can read media cards without a separate peripheral | Sockets that give your computer access to different peripherals |
|    | <b>Asus Eee PC 1001PXB-BL301</b><br>MSRP: 279.99*<br>SKU 9982578          | Windows XP Home  | 1.66GHz Intel Atom   | 160GB; 1GB   | Intel UMA  | SD/SDHC/MMC   | 2 USB,<br>1 Ethernet,<br>1 VGA                                  |
|    | <b>MSI Wind U135-206US</b><br>MSRP: \$309.99*<br>SKU 9748977              | Windows 7 Starter  | 1.66GHz Intel Atom   | 160GB; 1GB   | N/A  | Included  | 3 USB,<br>1 Ethernet  |
|  | <b>Samsung N230-11</b><br>MSRP: \$319.99*<br>SKU 1055528                  | Windows 7 Starter  | 1.66GHz Intel Atom   | 250GB; 1GB   | Intel Graphics Media Accelerator 3150                          | SD/SDHC/SDXC/MMC  | 3 USB,<br>1 Ethernet,<br>1 VGA                                  |
|  | <b>Gateway LT2104u</b><br>MSRP: \$329.99*<br>SKU 9695408                  | Windows 7 Starter  | 1.66GHz Intel Atom   | 250GB; 1GB   | Intel Graphics Media Accelerator 3150                          | SD/MMC/MS/MS PRO/xD-Picture Card                              | 3 USB,<br>1 Ethernet,<br>1 VGA                                  |
|  | <b>Dell Inspiron Mini IM1012-558PRP</b><br>MSRP: \$349.99*<br>SKU 9980713 | Windows 7 Starter  | 1.66GHz Intel Atom   | 250GB; 1GB   | Intel NM10 Express   | SD/MMC/MS   | 3 USB,<br>1 Ethernet  |
|  | <b>Sony VAIO M VPCM121AX/P</b><br>MSRP: \$399.99*<br>SKU 1002933          | Windows 7 Starter  | 1.83GHz Intel Atom   | 250GB; 1GB   | Intel Graphics Media Accelerator 3150                          | SD/MS Duo   | 3 USB,<br>1 Ethernet,<br>1 VGA                                  |
|  | <b>Lenovo IdeaPad S10-3</b><br>MSRP: \$439*<br>SKU 1033824                | Windows 7 Starter  | 1.66GHz Intel Atom   | 160GB; 1GB   | Intel Graphics Media Accelerator 3150                          | SD/MMC/MS/MS PRO/xD-Picture Card                              | 3 USB,<br>1 Ethernet,<br>1 VGA                                  |
|  | <b>Toshiba NB305-N444BN</b><br>MSRP: \$469.99*<br>SKU 9999013             | Windows 7 Starter  | 1.66GHz Intel Atom   | 250GB; 1GB   | Intel Graphics Media Accelerator 3150                          | SD/SDHC/MMC   | 3 USB,<br>1 Ethernet,<br>1 VGA                                  |

\*Prices listed in this issue are for general reference and may vary from retailer pricing.

# Software Listings

## Get More Out Of Your PC

Computers can be used to create greeting cards, play games, keep track of your finances, and more. The thing is, most of these functions aren't available straight out of the box. To fully harness your computer's potential, you'll need to buy software. Here are some options.

### Audio, Photo & Video



**Adobe Photoshop Elements 8**  
\$99.99\*  
[www.adobe.com](http://www.adobe.com)

Easily edit, share, and manage your photo collection with Adobe Photoshop Elements 8. You can also work with video clips.



**Corel PaintShop Photo Pro X3**  
\$99.99\*  
[www.corel.com](http://www.corel.com)

Corel PaintShop Photo Pro X3 lets you manage, edit, and share your digital photos. You can make automatic fixes in the enhanced Express Lab, or you can use the included advanced editing tools.



**Broderbund Print Shop 2.0 Deluxe**  
\$49.99\*  
[www.broderbund.com](http://www.broderbund.com)

Create sophisticated projects using the Wizard Design tool or a ready-made template. You can create greeting cards, banners, newsletters, photo projects, and more. You can also easily edit photos.



**Roxio Creator 2010 Pro**  
\$99.99\*  
[www.roxio.com](http://www.roxio.com)

Use Roxio Creator 2010 Pro to easily capture, enhance, and preserve your photos, videos, and audio projects. Sharing is available using a variety of methods. It also includes built-in BD authoring and more.



**Pinnacle Studio Ultimate Collection**  
\$129.99\*  
[www.pinnaclesys.com](http://www.pinnaclesys.com)

Pinnacle Studio Ultimate Collection comes with a full set of plug-ins and a Chroma-key green screen for advanced effects, editing, and production.



**Corel Photo & Video Pro X3 Bundle**  
\$149.99\*  
[www.corel.com](http://www.corel.com)

The Photo & Video Pro X3 Bundle from Corel features powerful editing tools for both photos and videos as well as tools for organizing your media and creating projects.



**Roxio Toast 10 Titanium For Macs**  
\$99.99\*  
[www.roxio.com](http://www.roxio.com)

Use Toast 10 Titanium to burn audio tracks, video clips, and other data to disc or convert files for playback on other devices.



**Apple Final Cut Express 4**  
\$199\*  
[www.apple.com](http://www.apple.com)

A drag-and-drop interface provides seamless movement between editing, trimming, and adding effects to your videos. The software is compatible with popular HD formats, including HDV and AVCHD.

### Business Applications



**Microsoft Office Professional 2010**  
\$499.99\*  
[www.microsoft.com](http://www.microsoft.com)

See p. 47

Microsoft Office Professional 2010 has enhanced features for all of your business needs, and it includes Word, Excel, PowerPoint, OneNote, Outlook, Access, and Publisher.



**Individual Software ResumeMaker Professional**  
\$29.95\*  
[www.individualsoftware.com](http://www.individualsoftware.com)

It's easy to write a professional resume quickly using ResumeMaker Professional. It also includes advanced search tools.



**Intuit Quicken Home & Business 2010**  
\$99.99\*  
[www.quicken.intuit.com](http://www.quicken.intuit.com)

The 2010 version of Quicken Home and Business includes automatic bill reminders and a one-page view of your finances. Plus, it shows you where you are spending and where you can save.



**Intuit QuickBooks Pro 2010**  
\$179.95\*  
[www.quickbooks.intuit.com](http://www.quickbooks.intuit.com)

Easily keep track of your company's finances with QuickBooks Pro 2010. You can organize and reference your customer, vendor, and employee financial information all in one place.

\* Prices listed in this issue are for general reference and may vary from retail pricing.



## Games/ Entertainment



**Activision Barbie  
& The Three  
Musketeers**  
\$19.99\*

[www.activision.com](http://www.activision.com)  
Choose a character with a unique ability to help you tackle obstacles and solve puzzles to uncover a plot against the prince and become a true musketeer.



**Disney Interactive  
Studio Alice In  
Wonderland**  
\$19.99\*

[disney.go.com/disneyinteractivestudios](http://disney.go.com/disneyinteractivestudios)  
Inspired by the Tim Burton film, this game lets you fall down the rabbit hole and experience Alice's adventure in Wonderland. You can play as the Mad Hatter, White Rabbit, or another character from the film to help Alice on her journey.



**Electronic Arts  
The Sims 3**  
\$49.95\*

[www.ea.com](http://www.ea.com)  
Create your very own Sims. Customize their personalities, appearances, and homes and send them out into the world to explore the neighborhood and meet new friends.



**Lego Indiana Jones  
2: The Adventure  
Continues**  
\$29.99\*

[www.lucasarts.com](http://www.lucasarts.com)  
Explore the locations from all four films and build your own levels and environments. And, all of your favorite characters are depicted in Lego form.

## Home Productivity



**Nuance Dragon  
NaturallySpeaking  
11 Home**  
\$99.99\*

[www.nuance.com](http://www.nuance.com)  
Dictate emails, reports, and documents much faster than you can type by letting Dragon NaturallySpeaking do the typing for you. The software has an accuracy rate of up to 99%.



**Apple MobileMe**  
\$99\*  
[www.apple.com](http://www.apple.com)

MobileMe, Apple's Internet service, lets you keep your email, contacts, and calendar up-to-date across your iPhone, iPod touch, Mac, and PC. It also lets you store and share documents online via iDisk, and you can manage everything online through a suite of Web applications at [www.me.com](http://www.me.com).



**DeLorme Street  
Atlas USA 2010  
Plus**  
\$39.95\*

[www.delorme.com](http://www.delorme.com)  
Street Atlas USA 2010 Plus is updated with new roads and road names, and it's now ready to use on any of your favorite devices, such as GPSes, netbooks, computers, and smartphones.



**Susteen Data  
Pilot Backup &  
Sync Kit (LG)**  
\$24.99\*

[www.datapilot.com](http://www.datapilot.com)  
Back up and sync your cell phone memory to your computer with a backup and sync kit. Kits for other phone manufacturers are also available.

## Security/ Utilities



**Kaspersky Lab  
Internet Security  
2011**  
\$79.95\*

[www.kaspersky.com](http://www.kaspersky.com)  
This software includes features to protect you from the latest viruses, spyware, and malware threats for one year and three PCs.



**Kaspersky  
Lab Anti-  
Virus 2011**  
\$59.95\*

[www.kaspersky.com](http://www.kaspersky.com)  
Kaspersky Anti-Virus 2011 includes essential protection against Internet threats, such as viruses, spyware, Trojans, and more, for one year and three PCs.



**Webroot Internet  
Security Complete  
2011**  
\$79.95\*

[www.webroot.com](http://www.webroot.com)  
Internet Security Complete can protect your computer from spyware, viruses, and spam. It also uses advanced technologies to ensure your identity is safe as you shop and browse the Internet. You can also back up digital photos and other files and sync them with a PC.



**Trend Micro  
Titanium  
Maximum Security**

\$39.95\*  
[www.trendmicro.com](http://www.trendmicro.com)  
Trend Micro's Titanium Maximum Security is easy to use and provides a variety of tools that can keep your computer and identity safe.

See p. 44

## System Clean-Up & Repair



**Avanquest  
Fix-It Utilities  
10 Professional**  
\$49.95\*

[www.avanquest.com](http://www.avanquest.com)  
Fix-It Utilities 10 Professional can make your computer run like new. It performs more than 250 tests to see what is slowing your computer down and then fixes the problem, giving you better performance.



**iolo System  
Mechanic**  
\$49.95\*  
[www.iolo.com](http://www.iolo.com)

With System Mechanic, you can find and fix errors and fragmentation on your PC, clean out clutter, and optimize your system for best performance.



**Acronis True  
Image Home  
2011**  
\$49.99\*

[www.acronis.com](http://www.acronis.com)  
This software backs up your entire computer, including the operating system, files, settings, and more, so you can easily recreate your system in the event of data loss.



**iolo  
DriveScrubber**  
\$29.95\*  
[www.iolo.com](http://www.iolo.com)

When it's time to get rid of your old computer, use DriveScrubber to ensure all of your personal data has been deleted. DriveScrubber will wipe your entire drive, including free space, and restore damaged drives.

## NOTEWORTHY

# Accessories & Services

A computer is a big investment, and now that you've taken the plunge, it's time to decide what accessories you need to go along with that shiny new purchase. We've rounded up several of our favorite extras for every computer owner. Whether you have a laptop or desktop, be sure to add these items to your shopping list to complete your computing experience.



## KEYBOARD

- An ergonomic design can cut down on the wrist strain associated with carpal tunnel syndrome
- Bluetooth connectivity lends itself to a tidy desk because there's one less wire to contend with
- A specialty model, such as a gaming or media keyboard, adds functionality to your pastime of choice



## EXTERNAL HARD DRIVE

- Protect precious video and photo memories: Back up to an external hard drive
- Keep your computer running more efficiently by saving large files, such as your media collection, on an external drive



## CLEANING KIT

- Specially designed cleaners will keep your computer screen clean without running the risk of scratching its surface
- Cloths are often made of low-conductivity material in order to reduce static



## PRINTER

- A quality photo printer will eliminate trips to the drugstore for 4x6 prints and give you the ability to instantly share your photo memories
- An all-in-one model is the perfect addition to any busy family that needs a device that can operate as a copier, scanner, fax machine, and printer



## USB HUB

- Offers an affordable way to connect all of your peripherals, even if you have more gadgets than USB ports
- Adds the convenience of easy USB access—no more reaching behind your computer to plug in your USB devices



## MOUSE

- A wireless mouse will cut down on cable clutter at your desk and also offers the convenience of portability for laptop use
- A gaming mouse can deliver better accuracy and speed for the ultimate in control
- Consider customizable buttons if you want to be able to access media, files, or programs with one-touch access



## SURGE PROTECTOR

- Ensure the electrical current running to your desktop or laptop computer doesn't exceed proper levels
- Portable models will protect your laptop when you're on the go for work or play



## COMPUTING SERVICES

To keep your desktop or laptop computer in tip-top shape, take advantage of the computing services offered at your local CE retailer. They can help you keep your machine running smoothly and free from the dangers that lurk online.

- Computer Setup & Networking
- Virus & Spyware Removal
- Data Backup & Recovery
- Hardware & Software Upgrades
- Training & Consultation



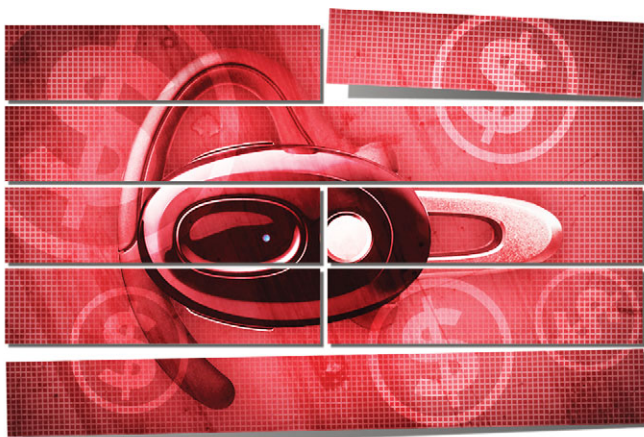
## WEB CAM

- Bridge the gap between long-distance family and friends with online video chatting by adding a Web cam to your setup

## HOW TO BUY A

# Bluetooth Headset

## Features & Benefits For Your Lifestyle



If you've seen someone talking in public, but there's no one nearby for the conversation, you're probably watching someone use a Bluetooth headset. Designed for short-range wireless communication, these small headsets pair with your cell phone so you can talk on the phone without holding it to your ear. Note that your mobile phone must be Bluetooth-enabled to wirelessly connect to a Bluetooth headset.

**Bluetooth benefits.** Bluetooth headsets let you keep your hands free to type notes on your PC while on a business call.

Or, if your city or state has enacted bans on using handsets while driving, you can use a Bluetooth headset to take a call and drive safely with both hands on the wheel.

... you can use a Bluetooth headset to take a call and drive safely with both hands on the wheel.

**Buying basics.** Because your Bluetooth headset is an on-the-go device, battery longevity is of great importance. Standard headset batteries power between five and 14 hours of talk time, and up to 200 hours of standby time. When considering the style and fit of a headset, take note of which headsets curve behind your ear, clip over your ear, or feature a wraparound design. If you're concerned about comfort, look for a model that includes ear cushioning.

... battery longevity is of great importance ...

**Extra features.** Depending on the model, you might find custom audio apps available, including voice dial apps to make calls and voice-to-text apps that transcribe what you say to social networking sites and calendar appointments.

**Sound technology.** Many Bluetooth headsets feature noise-canceling microphones, which minimize background noise and surrounding voices for clear conversations. Models that include an adjustable mic can make it easier for people to hear you.

Other microphones use wind suppression to prevent wind from interrupting your call when you're walking outdoors.

... an adjustable mic can make it easier for people to hear you ...



# TomTom XXL 550TM Fuel Services Bundle GPS

**With A Million More Miles Of Road\***



TomTom XXL 550TM Fuel Services Bundle GPS | \$259.95 | [www.tomtom.com](http://www.tomtom.com)

TomTom ([www.tomtom.com](http://www.tomtom.com)) offers GPS units that help you cover as much ground in the car as you can handle, all over the United States, Canada, and Mexico. In a big, wide world of roads less traveled, chances are that TomTom has been there; TomTom's maps include more than a million more miles of road than the competition.

## Essential Features

The new TomTom XXL 550TM Fuel Services Bundle GPS (\$259.95) has a 5-inch XXL touchscreen, a new two-button EasyMenu™, and Lifetime Traffic and Lifetime Map Updates. It also includes an EasyPort™ mount that folds into the back of the unit, making it easy to stash in the glove box or your bag when not in use, and a large speaker to make it easier to hear the loud, clear voice directions.

Lifetime Traffic Updates helps you outsmart traffic and avoid delays. With Lifetime Map Updates, you're guaranteed to have the most up-to-date and accurate maps. New map updates are issued four times per year.

## Beyond Just Getting There

The TomTom XXL 550TM Fuel Services Bundle GPS includes powerful features to help you on your journey. 24/7 IQ Routes technology uses real-world driving speeds to make sure you're taking the fastest, smartest route based on the time of day and day of the week. Advanced Lane Guidance helps ensure you're always in the right lane with on-screen lane indicators that show which lanes head in which direction, so you know which to be in.

And of course, TomTom's MapShare and HOME software provide frequently updated maps, a community of 30 million users (whose submitted data keeps TomTom's maps as current as possible), music, and new voices.

## The Fuel Bundle

The XXL 550TM Fuel Services Bundle GPS includes TomTom's fuel service, which uses updates from more than 80,000 gas stations to deliver gas pricing information. With this feature, you can always be assured of getting the best deal on fuel, and you won't have to drive around and waste gas to find it.

\*In the U.S. compared to the competition



# SanDisk Sansa Fuze+ MP3 Player

## More Than A Music Player

SanDisk Sansa Fuze+  
\$79.99 to \$119.99 | [www.sandisk.com](http://www.sandisk.com)

The SanDisk Sansa Fuze+ MP3 player (\$79.99 to \$119.99; [www.sandisk.com](http://www.sandisk.com)) is much more than a simple music player—it's a mini multimedia monster. You can listen to music, audio books, and podcasts, as well as view photos and video. Additionally, the Sansa Fuze+ has an FM radio with the ability to record your favorite shows. It also holds up to 40 preset channels, so you'll never have trouble finding your favorite stations. It features a built-in mic, too, so you can record your voice.

The SanDisk Sansa Fuze+ comes in capacities of 4GB, 8GB, or 16GB, and you can add storage by inserting a blank microSD card. Or, if you want the convenience of listening to additional libraries of preloaded tunes and playlists, you can plug in one of SanDisk's slotRadio cards. You can also add content to your player by connecting the MP3 player to your computer via the micro-USB 2.0 port.

Available in white, black, blue, red, or purple, the Sansa Fuze+ boasts a cool industrial design, complete with a 2.4-inch 320x240 color screen and included earphones.

Weighing in at just 2.1 ounces and measuring a petite 3.1x1.9x0.3 inches (LxWxD), the Sansa Fuze+ MP3 player won't weigh you down while you enjoy audio, photos, and video from a host of different sources.

### Highlights

- Digital FM tuner
- Battery lasts up to 24 hours of audio playback or five hours of video
- micro-USB 2.0 port
- microSD and microSDHC slot
- Capacitive touch control and intuitive interface
- slotRadio card compatibility lets you instantly access and play 1,000 songs
- 2.4-inch color screen

## ESSENTIAL THINGS TO KNOW

## Headphones

**Q What types of headphones are available?**

**A** There are several different variations of headphones available, so you should be able to find one that matches your particular lifestyle needs. These include earbud, clip-on, over the ear, and behind the neck. Earbuds fit snugly inside the ear, while the other types sit on the outside of your ear.

**Q What type of headphones work best for me?**

**A** This will come down to your personal preference and lifestyle. If you usually listen to audio at work, for example, you'll want over-the-ear headphones that cover your entire ear in order to get the fullest sound. If you are active and always on the go, earbuds are smaller and more portable.

**Q Can I use my headphones with my mobile phone?**

**A** Yes. If your phone has an audio jack, such as 1/4-inch, 2.5mm, or 3.5mm, you can match it to a pair of compatible headphones. If you want to be able to make and receive hands-free calls, look for headphones that come with a built-in microphone.

**Q What are the benefits of wireless headphones?**

**A** Wireless headphones let you listen to music without needing to plug a cord into your audio player. These would allow you to exercise or work outdoors without the cord getting snagged on the things around you.

**Q What other devices will my headphones work with?**

**A** Some televisions and A/V receivers have headphone jacks so you can listen without bothering others around you. Computers and handheld gaming devices often have headphone jacks, as well.

**Q What are noise-canceling headphones?**

**A** These can block out ambient noise using inverse sound waves, so you won't have to raise the volume as high to hear over the noise. These are great to use on a plane or in another loud environment.

**Q Are there waterproof headphones available?**

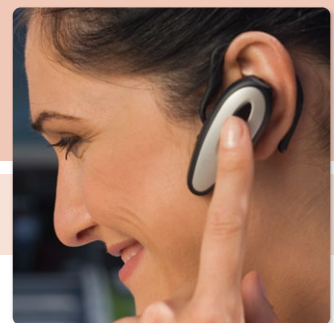
**A** Yes, you can buy waterproof headphones to use with a waterproof case for your MP3 player. Along with protecting the headphones themselves, they can create a seal that prevents water from entering your ears.

**Q What are sound-isolating headphones?**

**A** Sound-isolating headphones seal the ear canal to minimize the amount of ambient noise entering the ear.

**Q What headphones should I buy for my children?**

**A** You can find specially made headphones available for children. Or, some earbuds come with multiple sizes of ear tips to provide the best fit for different users.





# MP3 Player Glossary

Who doesn't want an MP3 player? It can help you relax, motivate you, and ensure you always have a song to match your mood. When you head to your local CE retailer to snag one, make sure you have this glossary so you can choose the perfect model.

**AAC**—Short for Advanced Audio Coding, this format is a competitor of the more common MP3 file format. It is the default format used by Apple.

**Click Wheel**—Apple's proprietary circular control on the front of the iPod.

**Certified For Windows Vista**—A certification from Microsoft that ensures your portable devices, such as MP3 players, and media, such as digital music and videos, are compatible with each other. This was once called PlaysForSure.

**download**—In terms of digital music, downloading is when you retrieve a song from an Internet site or another network connection and save it to your computer or portable music player. You can download songs from music Web sites such as iTunes, Napster, or Rhapsody.

**DRM (digital rights management)**—DRM is a security mechanism for digital media, associated with copyright. A common DRM scheme for digital music involves getting a licensed file to authorize playback of a free or purchased song.

**earbuds**—Small, circular devices you put into your ears so you can listen to music on your player. These serve the same function as headphones. Many music players

include their own earbuds, but you can purchase a separate pair that is more comfortable or of better quality.

**flash memory**—Solid-state memory with no moving parts that is lightweight and small. In terms of digital music players, a flash-based player is lighter and smaller than a hard drive-based player, and also, it won't skip. Thus, flash-based players are popular for use during exercise. However, the capacity of a flash-based player isn't as large as a hard drive-based player.

**FM tuner**—If your music player has a built-in FM tuner, you will be able to listen to music that is broadcast from local radio stations.

**hard drive**—Storage that consists of rigid platters inside a fixed casing. In terms of digital music players, a hard drive-based player is larger and heavier than a flash-based player. Because of the moving parts (the platters), hard drive-based players are also prone to skipping. However, their capacities are much larger than those of flash-based players.

**music management program**—A program, such as iTunes or Napster, that loads onto your computer and lets you play, organize, download, and purchase media, such as music and videos, for your player or PC.



**MP3**—Perhaps the most popular digital audio encoding format. It compresses audio to about one-twelfth the original size while still providing excellent sound. In general, a 1MB MP3 file will last about one minute.

**playlist**—A queue of songs a user creates to play on a computer, burn to a CD, or transfer to an MP3 player. The playlist will only include directions to the location of the songs, not the actual songs themselves.

**podcast**—A downloadable episode that is similar to a radio program. A user can subscribe to a podcast for updated episodes, or she can download podcasts one at a time.

**screen**—The display on the front of a portable music player. A player's screen can either display in color or black and white.

**WMA**—Windows Media Audio is a digital audio format created by Microsoft.

**widescreen**—A screen that has a 16:9 aspect ratio.

## Which MP3 Player Is Best For You?

iPods are cool, sure, but you have other choices when it comes to listening to your tunes. This chart compares the most important—and coolest—features from select MP3 players.

|   |   | Memory type   | Capacity                         | Video capabilities              | FM tuner  | Colors   | Battery life                                      |
|---|---|---|----------------------------------|---------------------------------|---|--|---|
|   | What It Means   | Hard drive (moving parts, more capacity) or flash (no moving parts) | How much memory the player has** | Some MP3 players can play video | Some MP3 players let you listen to radio stations | Several players offer a variety of color choices | How long the battery will last when playing music |
|    | <b>Archos 15 Vision</b><br>MSRP: \$39.99*<br>SKU 1111506                            | Flash   | 4GB                              | Yes                             | Yes   | Gray   | 10 hours  |
|    | <b>Apple iPod shuffle</b><br>MSRP: \$49*<br>SKU 9845475                             | Flash   | 2GB                              | No                              | No  | Orange, silver, pink, green, blue                | 15 hours  |
|   | <b>Sony E Series Walkman</b><br>MSRP: \$79.95*<br>SKU 9443792                       | Flash   | 8GB                              | Yes                             | Yes   | Black  | 30 hours  |
|  | <b>SanDisk Sansa Fuze+</b><br>MSRP: \$89.99*<br>SKU 1116229                         | Flash   | 8GB                              | Yes                             | Yes   | Blue, purple, black, white                       | 24 hours  |
|  | <b>Samsung YP-RO</b><br>MSRP: \$99.99*<br>SKU 1033157                               | Flash   | 8GB                              | Yes                             | Yes   | Pink, silver                                     | 30 hours  |
|  | <b>Apple iPod nano</b><br>MSRP: \$149*; \$179*<br>SKU 1161925                       | Flash   | 8GB; 16GB                        | No                              | Yes   | Pink, orange, green, blue, silver, graphite      | 24 hours  |
|  | <b>Apple iPod touch</b><br>MSRP: \$229*;<br>\$299*; \$399*<br>SKU 9225377           | Flash   | 8GB; 32GB;<br>64GB               | Yes                             | No  | Black  | 40 hours  |
|  | <b>Microsoft Zune HD</b><br>MSRP: \$199.99*;<br>\$269.99*; \$349.99*<br>SKU 9449581 | Flash   | 16GB; 32GB;<br>64GB              | Yes                             | Yes   | Black, platinum                                  | 33 hours  |









See p. 60

\*Prices listed in this issue are for general reference and may vary from retailer pricing.

\*\*One gigabyte of memory will hold approximately 250 songs. Actual capacity will vary depending on song length and format.

## Which GPS Device Is Right For You?

One of the hottest CE devices around right now is a GPS, and what a useful device it is, too. Here, we compare some models available on today's market. All of these units come with maps already loaded, and you can purchase additional maps, as well.

|   |   | Screen size;<br>Dimensions                                     | Text-to-speech;<br>Traffic receiver   | Preloaded<br>maps                                       | WAAS  | Bluetooth; MP3<br>playback  | Included charging<br>adapters  |
|---|---|--|---|---|---|---|--|
|   | What It Means   | The diagonal measurement of the screen; Height x width x depth | Unit calls out specific street names; Unit receives traffic updates and re-routes accordingly | The regional maps that come included with the GPS unit  | A satellite and ground station system that gives exceptional GPS accuracy | Some units communicate wirelessly with other Bluetooth devices or play MP3s | AC adapters plug into the wall; DC adapters plug into your car's cigarette lighter |
|    | <b>Insignia NS-NAV01</b><br>MSRP: \$99.99*<br>SKU 9351603       | 4.3 inches;<br>3.1x4.7x0.6 inches                              | Yes; No   | Entire U.S.   | Yes   | No; No  | DC adapter   |
|    | <b>Magellan RoadMate 1424</b><br>MSRP: \$129.99*<br>SKU 9894383 | 4.3 inches;<br>3.2x4.8x0.7 inches                              | Yes; Yes (with optional traffic receiver)   | Entire U.S. (including Puerto Rico), and Canada         | Yes   | No; No  | DC adapter   |
|   | <b>Insignia NS-CNV43</b><br>MSRP: \$199.99*<br>SKU 9366116      | 4.3 inches;<br>3.2x4.8x0.7 inches                              | Yes; Yes  | Entire U.S.   | Yes   | Yes; No   | DC adapter   |
|  | <b>Garmin nüvi 295W</b><br>MSRP: \$224.99*<br>SKU 1176902       | 3.5 inches;<br>2.3x4.4x0.6 inches                              | Yes; No   | Entire U.S. and Canada                                  | Yes   | Yes; No   | DC adapter   |
|  | <b>TomTom XL 350TM</b><br>MSRP: \$229.95*<br>SKU 9927197        | 4.3 inches;<br>3.2x4.7x0.9 inches                              | Yes; Yes (with optional traffic receiver)   | Entire U.S. (including Puerto Rico), Canada, and Mexico | No  | No; No  | DC adapter   |
|  | <b>TomTom XXL 550TM</b><br>MSRP: \$259.95*<br>SKU 1334083       | 5 inches;<br>3.8x4.7x1 inches                                  | Yes; Yes (with optional traffic receiver)   | Entire U.S. (including Puerto Rico), Canada, and Mexico | No  | No; No  | DC adapter   |
|  | <b>Magellan RoadMate 1700</b><br>MSRP: \$299.99*<br>SKU 9464153 | 7 inches;<br>4.2x7.5x0.6 inches                                | Yes; No   | Entire U.S. (including Puerto Rico), Canada, and Mexico | Yes   | No; No  | DC adapter   |
|  | <b>Garmin nüvi 3760T</b><br>MSRP: \$399.99*<br>SKU 9888989      | 4.3 inches;<br>2.9x4.8x0.4 inches                              | Yes; No   | Entire U.S. (including Puerto Rico), Canada, and Mexico | No  | Yes; No   | DC adapter   |

\*Prices listed in this issue are for general reference and may vary from retailer pricing.



NOTEWORTHY

# Accessories & Services

No matter where you are going, a wireless device can add enjoyment to your journey. To make sure you are taking full advantage of the capabilities your wireless devices offer, check your local CE retailer for accessories that can enhance your mobile experiences. We've listed our favorites below.



## GPS CHARGERS

- Make sure your travel companion always has a full battery
- If you do run out of battery, charge your GPS with an adapter; these can plug into a wall, PC, or car's DC outlet



## MP3 PLAYER EARPHONES

- Match earphones to your needs: If you don't want anything bulky, opt for earbuds that fit inside your ear; to hear every musical detail, try headphones that cover the ear completely
- Listen to your music without the interference of background noise with earphones that offer a noise-canceling feature



## MP3 PLAYER CASES

- Protect your MP3 player from bumps and scratches
- Quickly access your player's functions with a clip
- Keep your player out of your way with an armband



## CELL PHONE CHARGERS & BATTERIES

- Keep your phone charged no matter where you are; adapters for your cell phone let you use solar power, your car's DC outlet, wall power, or your computer to charge your phone
- Be prepared for emergencies with extra cell phone batteries



## GPS MOUNTS

- Mounts can be placed on a car dash or stuck to a windshield to be within reach



## MP3 PLAYER DOCKS & SPEAKERS

- Portable speakers let you play music for a group; some include radios and can also play CDs
- With a portable dock, you can recharge your player's battery as you listen to music
- Play your music through car speakers using an FM transmitter



## CELL PHONE HEADSETS

- Keep your hands free while still being able to use your phone
- Link compatible cell phones to a Bluetooth headset to make or take calls without a tangled mess of cables
- Use a headset that offers noise-canceling capabilities to ensure you don't miss any of your conversation



## CELL PHONE CASES

- Safeguard your phone from wear and tear with a case
- Universal cases fit most sizes of cell phones; some of these will include clips and wrist straps for portability and accessibility
- Fitted cases specifically fit your phone's model type; these can be hard acrylic casings, rubber sleeves, or leather pouches
- Avoid getting scratches and fingerprints on your phone's screen with stick-on or hard, clear screen protectors



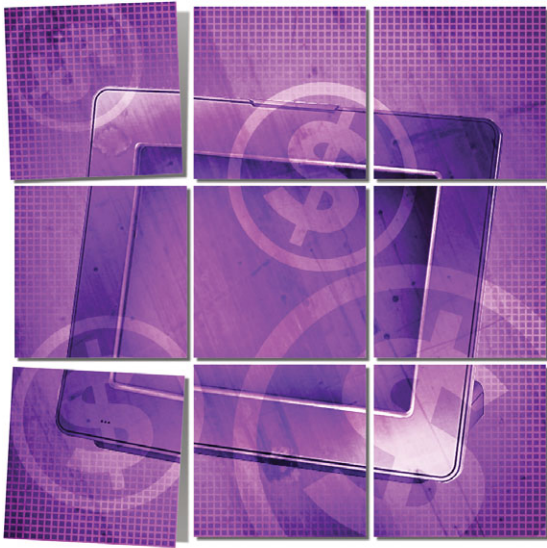
## MOBILE SERVICES

- Whether your wireless device is brand-new or nearing the end of its life span, your local CE retailer offers services to help you take care of all of its needs.
- Protection plans for GPSes, MP3 players, and cell phones
  - Phone and battery recycling
  - GPS setup and deck installation
  - MP3 vehicle integration
  - MP3 player setup and training
  - Cell phone repair services and loaner phones

## HOW TO BUY AN

# Internet Media Display

## Consider These Features



Somewhere between a personal media player and a tablet computer lies an Internet media display, a type of entertainment and Web browsing device. Beyond the usual things to consider, such as screen size and the overall value for the price, here are a few tips to help you make a good purchasing decision.

**What can it do?** First and foremost, it's important to be sure that an Internet media display's features fit your needs before you buy. For instance, does it give you browser access to the entire Web or only to specific content? Can it play your videos, songs, ebooks, and photos from memory cards, networked computers, and/or sharing sites?

... it's important to be sure that an Internet media display's features fit your needs ...

**How easy is it to use?** Ideally, an Internet media display should be simple enough for you to navigate without having to read the users manual. Is it easy to use the preinstalled applications and straightforward to add new ones? Is the touchscreen responsive to your fingertips? Does using the device feel natural and pleasant?

**Where can I use it?** Most Internet media displays include Wi-Fi networking capabilities. However, the ones that support 3G can get coverage outdoors and in vehicles, too. Likewise, some Internet media displays run on AC power, while others are battery-operated, so you can take them wherever you go. If you're considering a rechargeable model, try to ascertain how much it would cost to eventually replace the battery.

... 3G can get coverage outdoors and in vehicles, too.

**How does it look and sound?** Last, but definitely not least, there's the question of screen and audio quality. The latter may sound best over earbuds or headphones. As for the display, look for good detail and color in video and photos as well as clarity of text in Web pages and ebooks.

... look for good detail and color in video and photos ...

# Freedom To Roam

## Rocketfish's Rocketboost Stereo Headphones

With a wireless range up to 115 feet, Rocketfish's Rocketboost Stereo Headphones (model RF-RBWHP01; \$119.99; [www.bestbuy.com](http://www.bestbuy.com)) provide the freedom you need to listen to music all around your house. Additionally, the headphones include a docking station that can deliver audio to and from other Rocketboost products, such as the Rocketfish Wireless HD Audio Starter Kit (\$199.99) or the Insignia 450W 5.1-Ch. 3D Pass Through A/V Home Theater Receiver With Rocketboost (\$279.99).

with **rocketboost™**  
w i r e l e s s

**Expandable Wireless Audio**



### High-Performance Audio

The docking station sends uncompressed, digital CD-quality sound to the headphones, which means that your music will sound crystal clear. In addition to working with Rocketboost products, the headphones can work with any audio components in your house, including your HDTV, disc player, and portable music player. Just connect the docking station to the device you want to listen to, and you'll be able to hear audio through the headset as you move around your home.

### Smart Design

With a battery life of up to 10 hours, you won't need to recharge the headphones during a day's worth of work. The headphone docking station also serves as a charging cradle, letting you easily recharge your headphones when it's not in use. The headphone setup is as simple as connecting an RCA stereo cable (or 3.5mm cable) to the device, flipping the headphones' power switch to on, and pressing the Connect button on the headphone dock. The over-the-ear design is ideal for long hours of use because the earphones rest comfortably against the sides of your head, rather than pinching your ears.

Rocketfish Rocketboost Stereo Headphones (RF-RBWHP01)  
\$119.99  
[www.bestbuy.com](http://www.bestbuy.com)

### Benefits

- Prevents a portable music player's cord from getting in the way of doing chores around the house.
- Provides a way for you to enjoy late night TV or video games on a home-entertainment system without waking up others who have gone to bed.
- Keep up-to-date on the big game, even when you're not in the same room as your TV or radio.



## Which Gaming System Is Best For You?

Game consoles and portable devices are no longer limited to gameplay. They can also access the Internet, download media, and play your favorite DVDs or CDs. To help you find a gaming device that will suit you best, here's a comparison of the most popular selections you can find at your local CE retailer.

|                  |   | Hard drive size   | Compatible memory cards   | Optical drive   | Video resolution output  | Ports  |   |
|------------------|---|---|---|---|--|--|---|
|                  | What It Means   | How much data the system can hold   | Cards that will let you save and offload data, such as game saves or personal media | Aside from game discs, other playable media formats                       | Highest number of video pixels that is sent to a TV or portable console screen | Hookups for controllers as well as video and audio outputs |   |
| Console Devices  |    | <b>Sony PlayStation 3 With PlayStation Move</b><br>MSRP: \$399.99*<br>SKU 1122275 | 320GB   | PlayStation and PlayStation 2 cards with optional USB memory card adapter | CD, DVD, BD  | 1,920 x 1,080  | 1 A/V, 1 Ethernet, 1 HDMI, 1 optical digital audio, 2 USB   |
|                  |    | <b>Nintendo Wii</b><br>MSRP: \$199.99*<br>SKU 9916446                             | 512MB   | SD/Nintendo GameCube Memory Card  | Can only play game titles  | 720 x 480  | 4 controller, 1 Component, 1 Composite, 1 S-Video, 2 USB    |
|                  |  | <b>Microsoft Xbox 360</b><br>MSRP: \$299.99*<br>SKU 1069212                       | 250GB   | USB flash drive   | CD, DVD  | 1,920 x 1,080  | 1 optical audio out, 1 Ethernet, 1 HDMI, 5 USB, Kinect port |
| Portable Devices |  | <b>Nintendo DSi</b><br>MSRP: \$169.99*<br>SKU 9249725                             | 256MB   | SD  | None   | Dual 256 x 192   | 1 headphone, 1 microphone                                   |
|                  |  | <b>Nintendo DSi XL</b><br>MSRP: \$189.99*<br>SKU 9760166                          | 256MB   | SD  | None   | Dual 256 x 192   | 1 headphone, 1 microphone                                   |
|                  |  | <b>Sony PSPgo</b><br>MSRP: \$249.99*<br>SKU 9459659                               | 16GB  | Memory Stick Micro  | None; download to internal and removable memory only                           | 480 x 272  | 1 USB, 1 headphone  |
|                  |  | <b>Sony PlayStation Portable 3000</b><br>MSRP: \$169.99*<br>SKU 9175082           | 64MB  | Memory Stick Duo  | UMD (Universal Media Disc)   | 480 x 272  | 1 video out/headset, 1 USB, 1 DC out                        |

\*Prices listed in this issue are for general reference and may vary from retailer pricing.

|  | Online community                                      | Wi-Fi access; Media streaming   | Parental controls  | Compatible game formats                                 | Included accessories & services  | Available accessories   | Controllers  | Perfect for   |
|--|---|---|--|---|--|---|--|---|
|  | Web site membership for downloads, upgrades, and more | Access the Internet without a cable hookup; Send and receive media wirelessly | Helps parents decide what content their kids can or cannot access                          | Game titles that can be played on the game system       | Accessories included with the console  | Extras that can help enhance your gameplay  | Included controllers; wired/wireless controller compatibility                          | Who can benefit from the special features the gaming system offers  |
|  | Yes, free PlayStation Network membership              | Yes, 802.11b/g; Yes—Netflix and content from your home network                | Options available for games, BDs, DVDs, and Internet access                                | Sony PlayStation 3 titles and select PlayStation titles | DualShock 3 wireless controller, Move motion controller, Eye Camera, USB cable, PlayStation Network membership, AV cable | Move Navigation controller, Blu-ray remote, Bluetooth headset, memory card adapter, wireless keypad, cables | Includes 1 DualShock 3 wireless controller; wireless                                   | Someone who wants the value of a full gaming system with a BD player and media streaming                    |
|  | Nintendo Wi-Fi Connection                             | Yes, 802.11b/g; Yes—Netflix   | Options available for games, online features and downloads, and more                       | Nintendo GameCube and Wii titles                        | Wii remote and nunchuck, sensor bar, Wii Sports game, console stand, AV cable, adapter                                   | Wireless Wii remote, wheel, classic (wired) controllers, wireless sensor bar                                | Includes 1 wireless Wii remote and nunchuck; both (some titles require a wired remote) | Gamers of any age who want a unique wireless gaming experience that requires little gaming knowledge        |
|  | Xbox Live   | Yes, 802.11b/g; Yes—Netflix and content from your home network                | Options available for games, Xbox Live, console play time, and a Family Settings pass code | N/A   | Wireless controller, Xbox Live headset, AV cable, free one-month trial to Xbox Live Gold                                 | HDMI cable, USB flash drive, Play & Charge Kit  | Includes 1 wireless controller; wireless (Kinect coming next month)                    | Those who want an updated Xbox console with more storage capacity, built-in wireless capabilities, and more |
|  | Nintendo Wi-Fi Connection                             | Yes; Yes  | Options available for Nintendo DSi content   | Nintendo DSi and Nintendo DS titles                     | AC adapter, 2 styli  | Audio headset, battery power pack, screen protectors, carrying cases, styli                                 | N/A  | Users who want a handheld gaming system that lets them take, personalize, and share photos                  |
|  | Nintendo Wi-Fi Connection                             | Yes; Yes  | Options available for DSi software, DSi Browser, DSi Shop, and more                        | N/A   | Rechargeable battery, AC adapter, stylus, and 4 preinstalled titles  | Cases, adapters, headphones, full-sized stylus  | N/A  | Those who want a handheld gaming system better-suited for social gaming with a large screen                 |
|  | Yes, PlayStation Network                              | Yes, 802.11b; Yes   | Included   | Available for download from PlayStation store           | AC adapter, USB cable  | Protective screen film, cradle, headphones, memory cards, cases   | N/A  | Those who need a bigger screen for their gaming, Internet, and media entertainment                          |
|  | Yes, free PlayStation Network membership              | Yes, 802.11b; No  | Options available for UMDs, Internet, and video downloads                                  | PlayStation Portable titles                             | AC adapter, battery pack   | Battery charger, travel case, memory cards, AV cable, AC adapter, car adapter                               | N/A  | Those who want to enjoy gaming as well as movies, photos, and music when they're on the go                  |

## NOTEWORTHY

# Accessories & Services

The gaming experience goes beyond the game itself—you need the right console peripherals and the best just-in-case services. We've compiled a list of some of the must-have accessories that will only enhance your gameplay, so be sure to remember these items on the next trip to your local CE retailer.



### RACING WHEELS

- A gaming steering wheel puts you in the driver's seat of a virtual race
- A comfortable, accurate wheel will give you more control with turns, braking, and acceleration
- Be sure to purchase a racing wheel that's compatible with your specific gaming console



### USB DEVICES

- A USB media hub will let you connect other USB devices (including MP3 players and portable gaming devices) to your game console
- Use a USB rechargeable battery pack to charge the Li-Ion battery for guitar controllers



### GAMING KEYBOARD

- Adding a keyboard can help game efficiency—type in text codes and chat with other players quickly
- Look for a model with a touchpad so you can easily scroll around the game display
- Models that offer hotkeys will enable you to quickly perform tasks, such as gameplay actions



### MUSIC CONTROLLER ACCESSORIES

- Add a heavy-duty bass pedal to your gaming drum set to replace your standard pedal
- A tripod microphone stand will make your song-based games more true to life
- Extra cymbals for your rock drum kit will give you more freedom to express musical ability



### EXTERNAL MEMORY

- External hard drives, USB drives, or memory cards back up your in-progress games
- When additional memory is connected to live (on-line) games, you can save gaming content and downloads
- The more memory you have, the more games and downloads you'll be able to store



### WIRELESS CONTROLLER

- Bluetooth technology lets you play while also having the freedom to move around
- Some controllers use traditional AAA batteries to sustain your playing time
- Find the best design for your grip: ergonomic or traditional



### HEADSETS

- Use a hands-free headset to enhance your gaming experience by planning strategies aloud with your team
- A Bluetooth 2.0 headset is designed to communicate with your gaming console; Bluetooth headsets will be compatible with most game consoles
- Consider noise-canceling headsets with echo-minimizing microphones so you can hear and be heard clearly



### GAMING SERVICES

Your local CE retailer provides some helpful services, both in-home and in-store, to enhance your gaming console. Specifically, the professionals can set up online connections, install system updates, and transfer data to a gaming storage device.

- Configure online accounts
- Console system updates
- Stream media from a PC to a gaming console
- Connect a console to a home-theater system



## HOW TO BUY AN

## Oven

## What Features Fit Your Kitchen?



All you might expect from a new oven or range (an oven with burners on top) is for the temperature inside to match the setting on the dial. But did you know that it might be able to cook your food better and faster and even save you money on your gas or electric bill, too?

**The basics.** You've probably already matched the color of your new oven (if not stainless steel) to your kitchen. Your kitchen will guide your purchase in other ways. For instance, plumbing and wiring will determine whether you can install a gas, electric, or dual-fuel range (an electric oven with gas burners on the cooktop). Also, be sure to measure the available space carefully to be certain that your new oven will fit.

... be sure to measure the available space ...

**Convection and induction.** In a traditional oven, food can cook unevenly: Pizza crust may turn brown before the cheese on top melts. A convection oven circulates heated air with a fan to ensure faster, more even cooking. Also, an induction cooktop can save energy. By using electromagnetism and properties of alternating current to heat iron or steel pots, an induction cooktop also can keep you from burning yourself on a hot range.

**Special features.** For piping hot meals when you return home, try an oven with a delayed start timer. And when you cook for company, you'll appreciate a warming drawer, which keeps foods hot and moist until serving time. Some ranges feature fast oven preheating and water boiling times.

... try an oven with a delayed start timer.

**Alternatives.** Some oven-related appliances are available separately so you can mount them in convenient locations. You can install a warming drawer directly under your countertop or build a cooktop into your counter with no oven underneath. Conversely, a wall oven built directly into your wall or cabinetry can free up counter space.

Some oven-related appliances are available separately ...

# Now We're Cookin'

## Frigidaire's Oven & Range Benefits

When it comes to preparing meals, half of the battle (or more) is about getting the right tool for the job. The current line of ovens and ranges from Frigidaire ([www.frigidaire.com](http://www.frigidaire.com)) offer a Swiss Army knife-like array of extra features that go above and beyond the basics of cooking and baking. Read on to see how the latest Frigidaire ovens and ranges can make your life simpler, meals faster, food tastier, and all with less power.

### Shared Gas & Electric Features

#### Real Stainless Steel

Stainless steel is the must-have appliance finish these days, but in everyday use, the brushed surface is prone to ugly fingerprints and unappealing smears. Frigidaire's ranges<sup>†</sup> feature Real Stainless Steel, which employs a patented protective coating to keep the appliance looking clean.



#### Wide-View Window

The enemy of perfectly baked goodies is inconsistent heat. But if you have to open the oven repeatedly to inspect your dish's doneness, then you're fighting an uphill battle. With Frigidaire's Wide-View Window, you can keep an eye on things without affecting your oven's temperature.

#### Better Convection

- Convection ovens use a fan to circulate hot air, giving you perfectly baked foods no matter where you place it.
- **True Convection** ovens bake and brown foods more evenly and faster because a third heating element is located directly behind the convection fan.
- For ultimate baking results, a **True Dual Convection** oven\* utilizes two fans for the best heat distribution.



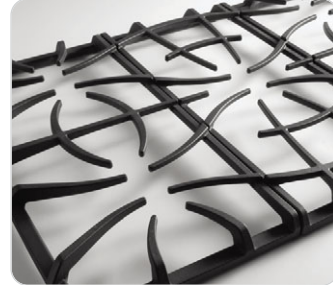
<sup>†</sup> Only available on Frigidaire Gallery and Frigidaire Pro models.  
<sup>\*</sup> Only available on electric models.



## Gas Oven & Range Features

### Continuous Grates

The matte finish cast-iron grates on most of Frigidaire's gas ranges and cooktops maintain a continuous surface from one edge of the cooktop to the other, even between burners. This lets you effortlessly slide pots and pans between burners without having to lift them off the cooking surface.



### Oval Burners

An oval-shaped burner, available on a number of Frigidaire gas ranges and cooktops, makes evenly heating longer pans and griddles a snap. The centrally located burner also makes it easy to cook multi-ple dishes in various sized pots and pans.



### Dual Ring Burners

You can increase the gas to a traditional single ring burner only so high before you begin to char the sides of your pots. But with a dual ring burner-equipped Frigidaire range or cooktop, you can rapidly boil gallons of water or gently simmer delicate sauces, all from the same powerful burner.



## Electric Oven & Range Features

### SpaceWise Expandable Elements

The front surface heating elements on select Frigidaire electric ranges and cooktops feature dual radiant or triple elements. This lets you efficiently cook with smaller sized pots and pans by turning a knob left or right to activate an additional element, widening the radiant surface, to cook with larger pans and pots. SpaceWise Expandable Elements come in 5- to 7-inch, 6- to 9-inch, 9- to 12-inch, and 6- to 9- to 12-inch sizes.



**For a side-by-side comparison of what features Frigidaire ovens and ranges have to offer, see pages 74 through 77.**

### True Hidden Bake







If you've ever had to scrub the inside of an electric oven then you know the bottom element is a particularly troublesome spot. Frigidaire ovens with True Hidden Bake, however, feature a smooth base panel that covers the bottom element, so cleaning is a snap.



# Find Your Frigidaire Gas Oven

When you're shopping for a Frigidaire ([www.frigidaire.com](http://www.frigidaire.com)) gas oven at your local CE retailer, you're not limited to the options you see on the floor. To better match your cooking needs, Frigidaire offers a variety of gas models that have advanced features and stylish looks. To help you pinpoint the oven to equip your kitchen with, here's a comparison of what select Frigidaire gas models have to offer.








**FRIGIDAIRE**

| SKU                         | Frigidaire<br>FFGF3011LW  | Frigidaire<br>FFGF3013LW  | Frigidaire<br>FFGF3015LW  | Frigidaire<br>FFGF3017LW   | Frigidaire<br>FFGF3019LW  | Frigidaire<br>FFGF3021LW  |  |
|-----------------------------|---|---|---|--|---|---|--|
|                             |  |  |  |  |  |  |  |
| Additional Colors Available | Black   | Black   | Black, Silver (stainless steel look)  | Black, Stainless handle  | Black, Stainless handle   | Black, Stainless handle   |  |
| MSRP*                       | \$349   | \$399   | \$449   | \$499  | \$599   | \$499   |  |
| Availability                | In-store  | Special order   | Special order   | Special order  | Special order   | In-store  |  |
| <b>COOKTOP FEATURES</b>     |   |   |   |  |   |   |  |
| Open Burner                 | Yes   |   |   |  |   |   |  |
| Sealed Burner               |   | Yes   | Yes   | Yes  | Yes   | Yes   |  |
| Grates                      | Wire  | Steel   | Black gloss steel   | Black matte cast iron  | Black matte cast iron (full width)  | Black matte cast iron   |  |
| Recessed                    |   |   |   |  | Yes   |   |  |
| Fifth Burner                |   |   |   |  |   |   |  |
| Dual Ring Burner            |   |   |   |  |   |   |  |
| Power Burner                |   |   | One 12K BTU   | One 12K BTU  | One 14K BTU   |   |  |
| Simmer Burner               |   |   |   | One 5K BTU   | One 5K BTU  |   |  |
| Multi Use Burner            | Four 9K BTU   | Four 9K BTU   | Three 9.5K BTU  | Two 9.5K BTU   | Two 9.5K BTU  | Four 9.5K BTU   |  |
| <b>OVEN FEATURES</b>        |   |   |   |  |   |   |  |
| Manual Clean                | Yes   | Yes   | Yes   | Yes  | Yes   |   |  |
| Self Clean                  |   |   |   |  |   | Yes   |  |
| Oven Capacity               | 4.2 cubic feet  | 4.2 cubic feet  | 4.2 cubic feet  | 4.2 cubic feet   | 4.2 cubic feet  | 5 cubic feet  |  |
| Convection                  |   |   |   |  |   |   |  |
| Oven Light                  | Yes, one light  | Yes, one light  | Yes, one light  | Yes, one light   | Yes, one light  | Yes, one light  |  |
| Drawer Type                 | Broil drawer  | Broil drawer  | Broil drawer  | Broil drawer   | Broil drawer  | Storage drawer  |  |
| Drawer Handle Type          | Short handle  | Short handle  | Short handle  | Short handle   | Short handle  | Short handle  |  |
| Racks                       | Two flat  | Two flat  | Two flat  | Two flat   | Two flat  | Two flat  |  |
| <b>COSMETIC FEATURES</b>    |   |   |   |  |   |   |  |
| Control Type                | ES100   | ES100   | ES100   | ES100  | ES100   | ES300   |  |
| Control Look                | 10-inch backguard   | SmoothTouch Guard   | SmoothTouch Guard   | Stainless steel overlay  | Stainless steel overlay   | Stainless steel overlay   |  |
| Oven Window                 | Standard  | Standard  | Standard  | Extra large  | Extra large   | Extra large   |  |
| Knob Material               | Plastic   | Plastic   | Plastic   | Plastic  | Plastic   | Plastic   |  |
| Included Extras             |   |   | Broil pan   | Broil pan  | Broil pan   |   |  |

\* Prices listed in this issue are for general reference and may vary from retailer pricing.

**FirstGlimpse**








## APPLIANCES

| Frigidaire<br>FFGF3023LW  | Frigidaire Gallery<br>BGGF3031KW  | Frigidaire Gallery<br>FGGF3032KW  | Frigidaire Gallery<br>FGGF3054KW  | Frigidaire Gallery<br>FFGF3056KF  | Frigidaire Gallery<br>FGGF305MKF  | Frigidaire Pro<br>PPGF3081KF  |
|---|---|---|---|---|---|---|
|   | 9355495   | 9432429   | 9427685   | 9379068   | 9721131   | 9355413   |
|  |  |  |  |  |  |  |
| Black, Silver (stainless steel look), Stainless handle                            | Black, Stainless handle   | Black, Stainless handle   | Black, Stainless handle   |   |   |   |
| \$549   | \$699   | \$849   | \$949   | \$1,249   | \$1,599   | \$1,499   |
| Special order   | In-store  | Special order   | Special order   | Special order   | Special order   | In-store  |
|   |   |   |   |   | Bake oven drawer  |   |
| Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |
| Black matte cast iron   | Black matte cast iron (full width)  | Black matte cast iron (full width)  | Black matte cast iron (full width)  | Black matte cast iron (full width)  | Black matte cast iron (full width)  | Black matte cast iron (full width)  |
|   | Yes, deep sump  | Yes, deep sump  | Yes, deep sump  | Yes, deep sump  | Yes, deep sump  | Yes, deep sump  |
|   |   | Yes, Convection   | Yes, TrueConvection   | Yes, TrueConvection   | Yes, Convection   | Yes, TrueConvection   |
|   | One 13.5K BTU   | One 14K BTU   | One 9.5K oval BTU   | One 9.5 oval BTU  | One 9.5 oval BTU  | One 9.5K oval BTU   |
| One 14K BTU   | One 17K BTU   | One 17K BTU   | One 17K BTU   | One 17K BTU   | One 17K BTU   | One 0.5K to 17K BTU   |
| One 5K BTU  | One 5K BTU  | One 5K BTU  | One 5K BTU  | One 5K BTU  | One 5K BTU  | One 5K BTU  |
| Two 9.5K BTU  | Two 9.5K BTU  | Two 9.5K BTU  | One 15K, one 9.5K BTU   | One 15K, one 9.5K BTU   | One 15K, one 9.5K BTU   | One 15K, one 9.5K BTU   |
|   |   |   |   |   |   |   |
| Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |
| 5 cubic feet  | 5 cubic feet  | 5 cubic feet  | 5 cubic feet  | 5 cubic feet  | 5 cubic feet  | 5 cubic feet  |
|   |   |   |   |   |   |   |
| Yes, one light  | Yes, one light  | Yes, one light  | Yes, one light  | Yes, one light  | Yes, one light  | Yes, one light  |
| Storage drawer  | Storage drawer  | Storage drawer  | Storage drawer  | Storage drawer  | Storage drawer  | Storage drawer  |
| Short handle  | Short handle  | Short handle  | Metal handle  | Metal handle  | Metal handle  | Metal handle  |
| Two flat  | Two flat, one offset  | One flat, one offset, one Effortless  | One HD, one offset, one Effortless  | One HD, one offset, one Effortless  | One HD, one offset, one Effortless  | One HD, one offset, one Effortless  |
|   |   |   |   |   |   |   |
| ES300   | ES330   | ES330   | ExpressSelect   | ExpressSelect   | ES540   | ProSelect   |
| Stainless steel overlay   | Stainless steel wrap  | Stainless steel wrap  | WideScreen stainless steel  | WideScreen stainless steel  | Stainless steel wrap  | Stainless steel wrap  |
| Extra large   | Extra large   | Extra large   | Extra large   | Extra large   | Extra large   | Extra large   |
| Plastic   | Plastic   | Plastic   | Stainless steel   | Stainless steel cast  | Stainless steel cast  | Stainless steel cast  |
|   |   |   |   | Griddle   | Griddle   | Griddle   |

# Find Your Frigidaire Electric Oven

With the right Frigidaire ([www.frigidaire.com](http://www.frigidaire.com)) electric oven, you can make cooking easier, faster, and better. With high-end features and looks to match your other kitchen appliances, Frigidaire can supply exactly what you're looking for. Because all of your options don't exist on a store floor and you need to make sure you purchase the right oven for your needs, here's a sampling of the electric oven models Frigidaire has to offer and the differences amongst them.

**FRIGIDAIRE**









| SKU                                | Frigidaire<br>FFEF3011LW  | Frigidaire<br>FFEF3012LW  | Frigidaire<br>FFEF3013LW  | Frigidaire<br>FFEF3015LW  | Frigidaire<br>FFEF3016LW   | Frigidaire<br>FFEF3017LW  | Frigidaire<br>FFEF3018LW  | Frigidaire<br>FFEF3020LW  |
|------------------------------------|---|---|---|---|--|---|---|---|
|                                    |  |  |  |  |  |  |  |  |
| <b>Additional Colors Available</b> | Black, Stainless handle   | Black, Stainless steel  | Black, Silver (stainless steel look), Stainless handle                            | Black, Stainless steel  | Black  | Black, Stainless steel  | Black, Silver (stainless steel look), Stainless handle                              | Black, Stainless steel  |
| <b>MSRP*</b>                       | \$349   | \$399   | \$429   | \$399   | \$449  | \$479   | \$499   | \$549   |
| <b>Availability</b>                | In-store  | Special order   | Special order   | Special order   | Special order  | Special order   | In-store  | Special order   |
| <b>COOKTOP FEATURES</b>            |   |   |   |   |  |   |   |   |
| <b>Coil</b>                        | Yes   |   |   | Yes   | Yes  |   |   |   |
| <b>Smooth Glass</b>                |   | Yes   | Yes   |   |  | Yes   | Yes   | Yes   |
| <b>Fifth Element</b>               |   |   |   |   |  |   |   | One 100W WZ   |
| <b>Expandable Elements</b>         |   |   | One 9", 6" 2,500W   |   |  |   | One 9", 6" 2,500W; one 12" 2,700W   | One 12", 9" 2,700W  |
| <b>Power Elements</b>              | Two 8" 2,100W   | One 9" 2,500W   | One 9" 2,500W   | Two 8" 2,100W   | Two 8" 2,600W  | Two 9" 2,500W   | Two 6" 1,200W   | One 9" 2,500W   |
| <b>Simmer Elements</b>             |   | Two 6" 1,200W   | Two 6" 1,200W   |   |  | Two 6" 1,200W   |   | Two 6" 1,200W   |
| <b>Multi Use Elements</b>          | Two 6" 1,250W   | One 8" 1,200W   |   | Two 6" 1,250W   | Two 6" 1,500W  |   |   |   |
| <b>OVEN FEATURES</b>               |   |   |   |   |  |   |   |   |
| <b>Manual Clean</b>                | Yes   | Yes   | Yes   |   |  |   |   |   |
| <b>Self Clean</b>                  |   |   |   | Yes   | Yes  | Yes   | Yes   | Yes   |
| <b>Oven Capacity</b>               | 4.8 cubic feet  | 4.8 cubic feet  | 4.8 cubic feet  | 5.3 cubic feet  | 5.3 cubic feet   | 5.3 cubic feet  | 5.3 cubic feet  | 5.4 cubic feet  |
| <b>Convection</b>                  |   |   |   |   |  |   |   |   |
| <b>Hidden Bake</b>                 |   |   |   |   |  |   |   | Yes   |
| <b>Oven Light</b>                  | Yes, one light  | Yes, one light  | Yes, one light  | Yes, one light  | Yes, one light   | Yes, one light  | Yes, one light  | Yes, one light  |
| <b>Drawer Type</b>                 | Storage drawer  | Storage drawer  | Storage drawer  | Storage drawer  | Storage drawer   | Storage drawer  | Storage drawer  | Storage drawer  |
| <b>Drawer Handle</b>               | Integrated  | Integrated  | Integrated  | Integrated  | Integrated   | Integrated  | Integrated  | Integrated  |
| <b>Racks</b>                       | Two flat  | Two flat  | Two flat  | Two flat  | Two flat   | Two flat  | Two flat  | Two flat  |
| <b>COSMETIC FEATURES</b>           |   |   |   |   |  |   |   |   |
| <b>Control Type</b>                | ES100   | ES100   | ES100   | ES200   | ES300  | ES300   | ES300   | ES300   |
| <b>Control Look</b>                |   | Stainless steel overlay   | Stainless steel overlay   | Black   |  | Stainless steel overlay   | Stainless steel overlay   | Stainless steel overlay   |
| <b>Oven Window</b>                 | Standard  | Extra large   | Extra large   | Extra large   | Extra large  | Extra large   | Extra large   | Extra large   |
| <b>Knob Material</b>               | Plastic   | Plastic   | Plastic   | Plastic   | Plastic  | Plastic   | Plastic   | Plastic   |
| <b>Fingerprint Resistant</b>       |   |   |   |   |  |   |   |   |

\* Prices listed in this issue are for general reference and may vary from retailer pricing.

**FirstGlimpse**



## APPLIANCES

| <b>Frigidaire</b><br><b>FGEF3031KW</b><br>9462985                                 | <b>Frigidaire</b><br><b>Gallery</b><br><b>BGEF3032KW</b><br>9355422               | <b>Frigidaire</b><br><b>Gallery</b><br><b>FGEF3034KW</b><br>9572599               | <b>Frigidaire</b><br><b>Gallery</b><br><b>FGEF3055KW</b><br>9462878               | <b>Frigidaire</b><br><b>Gallery</b><br><b>FGEF3056KF</b><br>9463056               | <b>Frigidaire</b><br><b>Gallery</b><br><b>FGEF3057KF</b><br>9463029                | <b>Frigidaire</b><br><b>Gallery</b><br><b>FGEF304DKF</b><br>9739228                 | <b>Frigidaire</b><br><b>Professional</b><br><b>FPEF3081KF</b><br>9355627            |
|---|---|---|---|---|--|---|---|
|  |  |  |  |  |  |  |  |
| Black, Stainless handle   | Black, Stainless handle   | Black, Stainless handle   | Black, Stainless handle   |   |  | White, Stainless handle   |   |
| \$649   | \$699   | \$899   | \$999   | \$1,249   | \$1,349  | \$1,599   | \$1,499   |
| Special order   | In-store  | Special order   | Special order   | Special order   | Special order  | Special order   | In-store  |
|   |   |   |   |   |  |   |   |
| Yes   | Yes   | Yes   | Yes   | Yes   | Yes  | Yes   | Yes   |
| One 100W WZ   | One 100W WZ   | One 100W WZ   | One 100W WZ   | One 100W WZ   | One 100W WZ  | One 100W WZ   | One 100W WZ   |
|   | One 9", 6" 3,000W; one 9", 12" 2,700W   | One 9", 6" 3,000W; one 9", 12" 2,700W   | One 9", 6" 3,000W; one 9", 12" 2,700W   | One 9", 6" 3,000W; one 9", 12" 2,700W   | One 9", 6" 3,000W; one 9", 12" 2,700W (triple)                                     | One 9", 6" 2,700W; one 6", 9" 3,000W  | One 2,500W bridge   |
| One 9" 3,000W   |   |   |   |   |  |   | One 9" 3,000W   |
| Two 6" 1,200W   | Two 6" 1,200W   | Two 6" 1,200W   | Two 6" 1,200W   | Two 6" 1,200W   | Two 6" 1,200W  | Two 6" 1,200W   | One 6" 1,200W   |
| One 12" 2,700W  |   |   |   |   |  |   |   |
|   |   |   |   |   |  |   |   |
| Yes   | Yes   | Yes   | Yes   | Yes   | Yes  | Yes   | Yes   |
| 5.4 cubic feet  | 5.7 cubic feet  | 5.7 cubic feet  | 6 cubic feet  | 6 cubic feet  | 6 cubic feet   | 2.3 and 4.3 cu. ft.   | 6 cubic feet  |
|   | Yes, Convection   | Yes, TrueConvection   | Yes, TrueConvection   | Yes, TrueConvection   | Yes, TrueConvection  | Yes, TrueConvection   | Yes, DualConvection   |
| Yes   | Yes   | Yes   | Yes   | Yes   | Yes  | Yes   | Yes   |
| Yes, one light  | Yes, one light  | Yes, one light  | Yes, one light  | Yes, one light  | Yes, one light   | Yes, one light  | Yes, one halogen  |
| Storage drawer  | Storage drawer  | Storage drawer  | Storage drawer  | Storage drawer  | Storage drawer   | Storage drawer  | Storage drawer  |
| Integrated  | Integrated  | Integrated  | Metal   | Metal   | Metal  | Metal   | Metal   |
| Two flat, one offset  | One flat, one offset, one Effortless  | One flat, one half, one Effortless  | One flat, one half, one Effortless, one sump                                      | One flat, one half, one Effortless, one sump                                      | One flat, one half, one Effortless, one sump                                       | One half, one Effortless  | One flat, one half, one Effortless, one sump  |
|   |   |   |   |   |  |   |   |
| ESS330  | ES330   | ES540   | ES540   | ExpressSelect Electronic  | ExpressSelect Electronic   | ExpressSelect Electronic  | ExpressSelect Electronic  |
| Stainless steel wrap  | Stainless steel wrap  | Stainless steel wrap  | Stainless steel wrap  | Thin profile aluminum   | Thin profile aluminum  | Thin profile aluminum   | Thin profile aluminum   |
| Extra large   | Extra large   | Extra large   | Wide view window  | Wide view window  | Wide view window   | Wide view window  | Wide view window  |
| Plastic   | Plastic   | Plastic   | Cast metal  | Knobless  | Knobless   | Cast metal  | Knobless  |
| Yes   | Yes   | Yes   | Yes   | Yes   | Yes  | Yes   | Yes   |

# Efficient Cooking Solutions

## Whirlpool's Double Ovens Make Entertaining A Snap

When you're getting ready to host a large holiday gathering, it helps to have an oven that can multitask. Whirlpool's freestanding double ovens ([www.whirlpool.com](http://www.whirlpool.com)) can bake multiple dishes simultaneously at different temperature settings. This lets you time your appetizers and dinner just right and follow them up with warm cookies for dessert.

### Save Energy

The upper oven on Whirlpool's freestanding double ovens will not only let you cook an additional dish at a different temperature, but it will also help you save energy when you just have one item to bake. The smaller upper oven requires 39% less energy than a full-sized oven. Additionally, Whirlpool's Energy Save mode can use 62% less energy over a 24-hour period.

### Keep It Clean & Efficient

The SteamClean feature, available on special-order model GGE390LXS, uses 96% less energy than traditional self-cleaning oven technology. It also works up to nine times faster. So, whether you need to clean the oven as part of your cleaning routine or after a food spill, it won't greatly impact your electric bill or take up your entire day.

### Save Time

In addition to being green, the smaller top oven has a faster preheat time than the larger bottom oven. It only takes 4.5 minutes to preheat, and it can still handle full-sized dishes. This makes the double oven convenient for weeknight dinners and late-night snacks as well as larger holiday meals.

### Fits Into Your Lifestyle & Your Home







Whirlpool makes it easy to match a double oven to your home and lifestyle. Gas or electric models are available, depending on what you need in your kitchen. You can also decide whether you want an Eco-Friendly Schott Ceran glass cooktop or a porcelain cooktop with dishwasher-safe cast-iron grates.



# Find Your Whirlpool Oven

It's likely that Whirlpool ([www.whirlpool.com](http://www.whirlpool.com)) has an oven that can meet your baking needs. You'll find gas or electric ranges; glass, porcelain, or electric coil cooktops; and single or double ovens. On top of that, each model has a different capacity and unique extra features that can enhance your cooking experience. So, check out the comparison chart below to see which one you need in your kitchen.



| Product Name                | Whirlpool<br>GGG388LXS  | Whirlpool<br>GGE388LXS  | Whirlpool<br>WFE371LVS  | Whirlpool<br>WFE361LVQ  | Whirlpool<br>WFE301LVS  | Whirlpool<br>RF263LXTQ  |
|-----------------------------|---|---|---|---|---|---|
| SKU                         | 1167213   | 1167152   | 8936752   | 8936743   | 8933087   | 8658963   |
|                             |  |  |  |  |  |  |
| Additional Colors Available | White, Black  | White, Black  | White, Black  | Black, Stainless Steel, Biscuit, Silver   | White, Black  | Black, Stainless Steel  |
| MSRP*                       | \$1,449   | \$1,349   | \$799   | \$599   | \$579   | \$399.99  |
| COOKTOP FEATURES            |   |   |   |   |   |   |
| Fuel Type                   | Gas   | Electric  | Electric  | Electric  | Electric  | Electric  |
| Size                        | 30 inches   | 30 inches   | 30 inches   | 30 inches   | 30 inches   | 30 inches   |
| Cooktop Type                | Porcelain with full cast-iron dishwasher-safe grates                              | Eco-Friendly Schott Ceran glass cooktop   | Eco-Friendly Schott Ceran glass cooktop with CleanTop Cooking Surface             | Eco-Friendly Schott Ceran glass cooktop with CleanTop Cooking Surface             | Eco-Friendly Schott Ceran glass cooktop with CleanTop Cooking Surface               | Electric Coil with drip pans  |
| Heating Capacity            | 5,000 to 15,000 BTUs  | 100 to 2,500 watts  | 1,000 to 3,000 watts  | 1,000 to 2,500 watts  | 1,500 to 2,000 watts  | 1,500 to 2,600 watts  |
| OVEN FEATURES               |   |   |   |   |   |   |
| Double Oven                 | Yes   | Yes   | No  | No  | No  | No  |
| Oven Capacity               | 6 cu. ft. (both)  | 6.7 cu. ft. (both)  | 5.3 cu. ft.   | 4.8 cu. ft.   | 4.8 cu. ft.   | 4.8 cu. ft.   |
| Baking System               | AccuBake  | AccuBake  | AccuBake  | Balanced Bake   | Balanced Bake   | Balanced Bake   |
| Cleaning System             | Precise Clean self-cleaning system  | Precise Clean self-cleaning system  | Adjustable Time Self-Cleaning, Steam-Clean option                                 | Adjustable Time Self-Cleaning   | Standard Clean Oven   | Self-clean feature  |
| Number of Racks             | Two adjustable  | Two adjustable  | Two adjustable  | Two adjustable  | Two adjustable  | Two adjustable  |
| COSMETIC FEATURES           |   |   |   |   |   |   |
| Storage Drawer              | No  | No  | Yes   | Yes   | Yes   | Yes   |
| Clock & Timer               | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |
| Extra Features              | Energy Save and Sabbath modes   | Energy Save and Sabbath modes   | Oven Hold Warm and Custom Broil   | Custom Broil and Control Lock   | Custom Broil  | Delay Bake and Control Lock   |

\* Prices listed in this issue are for general reference and may vary from retailer pricing.



## NOTEWORTHY

# Accessories & Services

After you've selected an appliance, you need to make sure you have all of the necessary extras, such as cords or hoses for installation. It's also good to consider if you want a professional to deliver and install your unit. By adding the accessories below, you can ensure your appliance's performance remains top-notch.



### VACUUM BELTS, BAGS & FILTERS

- Replace vacuum belts every year for optimum performance
- Trap airborne pollutants, such as household dust, particles, and debris with micro allergen or hepa filter vacuum bags and filters



### HIGH-EFFICIENCY LAUNDRY DETERGENT

- Wash clothes better with a detergent that's formulated to work with a high-efficiency washer
- HE detergent prevents damage to your washer, such as leaking, vibration, and poor spinning



### GAS FLEX LINES

- **Ranges and laundry dryers.** Gas lines aren't included with these appliances, so you'll need to pick one up
- With an auto shutoff feature, you can protect your home from gas leaks
- Professional installers require a new gas line



### UPHOLSTERY & FLOOR CLEANING AGENTS

- Make cleaning easy with products made for particular surfaces, such as multi-floor, wood floors, carpet, and upholstery
- Some agents can be used with a variety of products, but others are for use with specific products



### LAUNDRY PEDESTALS

- Raise your front-loading washer and dryer to an easy-to-access and more ergonomic height
- Store laundry supplies in pedestals that double as drawers



### REFRIGERATOR BULBS & FILTERS

- Keep a spare bulb on hand to replace burnt out interior lights
- Ensure your dispensed water and ice always tastes fresh with extra water filters



### WATER LINES

- **Refrigerators.** Some models include plastic water lines, which are susceptible to twisting or leaks. A better alternative is a line made of metal, such as copper or stainless steel.
- **Washing machines.** Don't settle for the rubber hose that comes with your machine, as it can burst. Instead, opt for a durable stainless steel hose that will last longer.
- **Dishwashers.** Reusing an old water line can lead to water damage. Instead, get a dishwasher kit that includes a water line and power cord for the best performance.



### ELECTRICAL CORDS

Power cords aren't included with these appliances. Here's what you should know:

- **Washers and dryers.** All new models use 4-prong cords, but models made before 1984 require a 3-prong cord replacement.
- **Dishwashers.** Purchase a three-prong cord individually or in a kit that includes a water line.
- **Ranges.** Check your home's electrical outlet to get either a 3-prong or 4-prong cord.



### APPLIANCES SERVICES

Whether you're buying a new unit or need to tune up your existing one, CE retailers offer professional services like the ones below to help get your appliance up and running in no time.

- Delivery & Installation
- Appliance Recycling
- Appliance Service Plans
- Appliance Repairs



# 4G Technologies: WiMAX & LTE

The good news is that, although it's taken longer than expected to arrive, 4G is finally gathering momentum in the U.S.

4G is the fourth generation of wireless broadband technologies. 2G was the transition to digital mobile phone service, and 3G combined voice and data services to bring broadband Internet to smartphones and mobile broadband cards as well as select notebooks, netbooks, and eReaders, although compared with typical Wi-Fi, 3G is fairly slow and rudimentary. 4G promises to be a quantum leap in every way. Its speed boost comes from splitting up data and sending it on multiple frequencies at once, rather than sending everything on a single frequency, the way 3G works.

Bottom line, 4G is about much more than phone service with a little Internet on the side. It's designed to move data—lots of it, super fast, and practically anywhere you want it.

## Imagine The Possibilities

So what do you need to tap into this, and what can you do with it? You'll

need a device, such as a smartphone, notebook computer, or mobile broadband card that's specifically enabled for 4G. You'll also need an account with a service provider, the same as you would for 3G service.

Once you're connected to 4G service, anything you're able to do on your computer at home you should be able to do when you're out and about. If you're on a business trip, you can download large multimedia presentation files in moments from your hotel lobby. You could stream a high-definition program to make a commute pass more quickly or attend one sporting event in person while watching another from halfway around the world using a 4G-enabled smartphone or notebook.

However, 4G isn't just for mobile use. It's also an alternative to cable and DSL for home Internet service. For instance, a 4G base station could wirelessly connect to a service provider, while linking to your computers, game consoles, and other Wi-Fi-compatible devices.

## How WiMAX & LTE Fit In

Currently, 4G is split further into two different technologies, each with powerful backers, vying for marketplace supremacy.

WiMAX and LTE are competing formats of 4G service. Whichever one you end up using will be determined by which service provider you choose.

**WiMAX** is the 4G technology of choice for service providers Sprint and Clearwire (although Clearwire recently announced that it has begun testing LTE, as well). At press time, WiMAX is the only 4G technology actively being used in the United States with service in 55 markets. By the end of 2010, it's expected to reach all major U.S. markets, covering 120 million people.

**LTE** is widely perceived as the prevailing 4G technology because it's been adopted by the majority of U.S. carriers: Verizon, AT&T, and T-Mobile. LTE isn't yet commercially available in the United States, although Verizon expects to serve

25 to 30 markets by the end of 2010 and aggressively expand during 2011.

It's important to note that in the United States, neither WiMAX nor LTE operate anywhere near the speeds that the International Telecommunications Union specifies for 4G. While Clearwire cites speeds roughly equivalent with cable modem, they're only 3 to 6% of what's called for. Based on tests, Verizon promises that LTE will be much faster than WiMAX, but its everyday, real-world speeds remain to be seen.

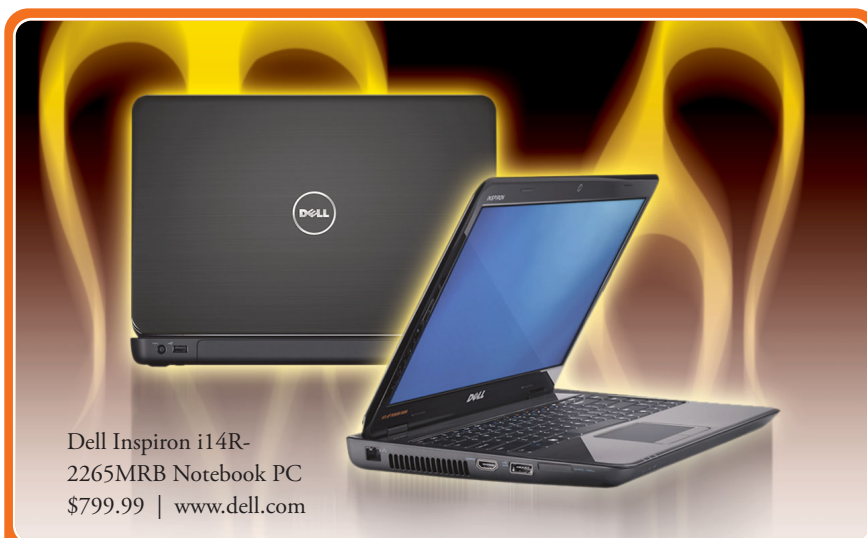
Still, both will evolve, and eventually be many times faster than the fastest Internet connections now available.

### More Alike Than Not

The WiMAX-vs.-LTE rivalry has widely been characterized as a winner-take-all smack down. And a situation with competing technologies rightly makes people hesitant to commit to either of them until one surrenders and leaves the other an undisputed winner, the way the Blu-ray Disc format eventually triumphed over HD-DVD.

However, it isn't an equivalent scenario with WiMAX and LTE. There are many reasons why both 4G technologies could indefinitely co-exist, much the way PCs and Macs both serve their own purpose.

But even if one 4G technology were to succumb to the other, it probably wouldn't be that big of a deal. You're unlikely to be stuck with a suddenly obsolete device. That's because the hardware for both WiMAX and LTE is about 85% the same. They're also based on the same underlying data-handling technology. The chief difference lies in how each format implements it.



## Dell Inspiron i14R-2265MRB Notebook PC

Here's a notebook PC with a difference.

What sets Dell's Inspiron i14R-2265MRB apart from most laptops is a built-in WiMAX antenna. Because it also comes with the standard 802.11n Wi-Fi, this doubles your options for Internet connectivity while on the go—assuming, of course, you're in a market covered by WiMAX service. This can be a lifesaver if you need to connect but find yourself outside of a Wi-Fi hotspot. As well, as 4G speeds increase, WiMAX should eventually let you connect at

speeds that leave Wi-Fi in the dust.

Under the hood, the Inspiron i14R-2265MRB is powered by an Intel Core i5 2.4GHz processor, and comes with Windows 7 Professional 64-bit pre-installed. The standard configuration includes 4GB RAM (expandable to 8GB) and a 500GB hard drive.

It measures 1.2 inches thick and weighs around 5 pounds, so it will travel easily. It has a 14-inch backlit LED display with a 1,366 x 768 resolution, so high-def video will come through bright and clear.

Further connectivity options include VGA and a full-sized HDMI port, for use with external displays, and three USB ports, one of which doubles as an eSATA port. It also has Bluetooth for interfacing with peripheral devices—not a common feature found in this price range—and a 1.3MP Web cam for video chat or conferencing.

The Inspiron i14R-2265MRB may pack a little more muscle than most casual users need, but it could be ideal for a company laptop or small business use. ●

As well, with cooperation between their proponents, WiMAX and LTE could conceivably be merged into a single, unified standard.

Still a work in progress, 4G will take a few more years to truly arrive.

BY BRIAN HODGE



# Prepare For Winter

## What You Need For The Upcoming Season

As the leaves fall off the trees and the weather starts to turn colder, you'll need to stock up on products that can help keep you warm and entertained during the long winter months. Here's what you can find at your local CE retailer.



### PlayStation 3 With PlayStation Move Bundle

This bundle features a PlayStation 3 with a BD player, the new PlayStation Move motion controller, a DualShock 3 wireless controller, Sports Champions game, and more. What more do you need to keep you entertained on cold winter nights?

**\$399.99**

### Hamilton Beach Stay Or Go 6-Quart Slow Cooker

Cook up warm winter meals in a slow cooker. This one has full-grip handles that make it easy to take whatever you make with you to a potluck or holiday gathering.

**\$34.99**



### Fireplace: Visions Of Tranquility Blu-ray Disc

Enjoy the coziness of a fireplace in Full-HD, even if you don't have one or live somewhere sunny and don't need one.

**\$24.95**



### Lenovo IdeaCentre K300

You'll be spending a lot of time inside this winter if you live in a colder climate. This desktop PC can provide entertainment for the whole family or let you work from home when roads are impassable.

### La Crosse Weather Station

Winter can make traveling anywhere difficult, so it's important to keep track of changing weather conditions. This weather station can provide four-day forecasts for more than 60,000 locations.

**\$39.99**



### Pink Snuggie

Stay warm while also keeping your hands free for reading, talking on the phone, and other tasks. This pink, one-size-fits-all snuggie will be a real comfort on snowy days.

**\$7.99**







Since 1979, Sandhills Publishing has produced publications covering technology beginning with the introduction of *Processor*. Over the years, the company has developed a complete line of computing publications, encompassing *Smart Computing*, *PC Today*, *Computer Power User*, and *First Glimpse*. Our plain-English approach has served audiences well for 30 years, ensuring they receive accurate and unbiased technology information to meet their needs.

